

Thursday April 4, 1985

Part II

Environmental Protection Agency

40 CFR Parts 117 and 302 Notification Requirements; Reportable Quantity Adjustments; Final Rule and Proposed Rule

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Parts 117 and 302

[SW H-FRL 2665-6(b)]

Notification Requirements: Reportable Quantity Adjustments

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule.

SUMMARY: Sections 103(a) and 103(b) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 ("CERCLA") require that persons in charge of vessels or facilities from which hazardous substances have been released in quantities that are equal to or greater than the reportable quantities immediately notify the National Response Center of the release. Section 102(b) sets a reportable quantity of one pound for hazardous substances, except those for which reportable quantities have been established pursuant to section 311(b)(4) of the Clean Water Act ("CWA").

Section 102(a) authorizes the **Environmental Protection Agency** ("EPA") to adjust reportable quantities for hazardous substances and to designate as hazardous substances, substances which when released into the environment may present substential danger to the public health or welfare or the environment. This final rule adjusts many of the reportable quantities established in section 102(b). These reportable quantity adjustments are intended to reduce the burdens of reporting on the regulated community, allow EPA to focus its resources on the most serious releases, and protect public health and welfare and the environment more effectively. This rule also designates, under section 102(a) all substances listed under the various statutory provisions referenced in section 101(14) of CERCLA. This rule also revises reportable quantities established pursuant to section 311(b)(4) of the Clean Water Act for discharges of hazardous substances into navigable waters, so that the CWA section 311 reportable quantities will be identical to and therefore consistent with those promulgated under CERCLA.

To help implement these changes, today's rule clarifies requirements for notifying the National Response Center of a release of a hazardous substance in a quantity equal to or greater than its reportable quantity. The toll-free telephone number of the National Response Center is listed under "ADDRESSES."

EFFECTIVE DATE: July 3, 1985.

CERCLA section 305 provides for a legislative veto of regulations promulgated under CERCLA. Although INS v. Chadha, 462 U.S. 919, 103 S. Ct. 2764 (1983), cast doubt on the validity of the legislative veto, EPA has transmitted a copy of this regulation to the Secretary of the Senate and the Clerk of the House of Representatives. If any action by Congress calls the effective date of this regulation into question, the Agency will publish a notice of clarification in the Federal Register.

ADDRESSES: The toll-free telephone number of the National Response Center is (800) 424-8802; in the Washington, D.C. metropolitan area (202) 426-2675.

The record supporting this rulemaking is available for public inspection at Room S-325, U.S. Environmental Protection Agency, 401 M Street SW, Washington, D.C. 20460 (Docket Number 102RQ). The docket may be inspected between 8:00 a.m. and 4:00 p.m. Monday through Friday. As provided in 40 CFR Part 2, a reasonable fee may be charged for copying services.

FOR FURTHER INFORMATION CONTACT:

Dr. K. Jack Kooyoomjian, Response Standards and Criteria Branch, Emergency Response Division (WH-548B), U.S. Environmental Protection Agency, 401 M Street, SW, Washington D.C. 20460,

or the

RCRA/Superfund Hotline (800) 424-9346, in Washington, D.C., (202) 382-3000.

SUPPLEMENTARY INFORMATION: The contents of today's preamble are listed in the following outline:

- I. Introduction
 - A. Statutory Authority
 - B. Background of this Rulemaking
 - C. Organization of the Final Rule
- II. Summary of Changes From the Proposed Rule
- III. Issues Addressed in the Notice of Proposed Rulemaking But Not Resolved in This Rule
 - A. Continuous Releases
 - **B.** Federally Permitted Releases
 - C. Radionuclide RQs
- D. Carcinogen RQs
- IV. Notification
- A. Introduction
 - B. Purposes and Mechanics of Notification
- C. Persons Covered by This Rule
- D. Releases Covered by This Rule
- E. Exemptions From the CERCLA **Notification Requirements**
- F. Duplicate Reporting
- G. Regulatory Consistency
- H. Penalties
- V. Reportable Quantity Adjustments
 - A. Introduction

- B. Number of Reportable Quanity Levels and Their Values
- C. Methodology Used To Adjust Reportable Quantities
- D. Criteria Used To Adjust Reportable **Ouantities**
- E. Future RQ Adjustments
- F. Application of the Methodology and Criteria
- G. Summary of RQ Changes From the May 25, 1983 NPRM
- H. Retention of Statutory RQ for Methyl Isocyanate
- I. Table 302.4
- VI. Reportable Quantity Adjustments Under Section 311 of the Clean Water Act
- VII. Summary of Supporting Analyses
- A. Classification and Regulatory Impact Analysis
- B. Regulatory Flexibility Analysis
- C. Information Impact Analysis

I. Introduction

A. Statutory Authority

The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [Pub. L. 96-510], 42 U.S.C. 9601 et seq., enacted on December 11, 1980, establishes broad federal authority to deal with releases or threats of releases of hazardous substances from vessels and facilities. The Act defines a set of "hazardous substances" by reference to other environmental statutes (section 101(14)); this list currently contains 698 substances. The **Environmental Protection Agency** ("EPA") may designate additional hazardous substances (section 102).

The Act requires the person in charge of a vessel or facility to notify the National Response Center ("NRC") immediately when there is a release of a designated hazardous substance in an amount equal to or greater than the reportable quantity ("RQ") for that substance (sections 103(a) and (b)). Section 102(b) of CERCLA establishes RQs for releases of designated hazardous substances at one pound, unless other reportable quantities were assigned under section 311 of the Federal Water Pollution Control Act ("Clean Water Act" or "CWA"). Section 102 authorizes EPA to adjust all of these reportable quantities.

A major purpose of the section 103(a) and (b) notification requirements is to alert the appropriate government officials to releases of hazardous substances that may require rapid response to protect public health and welfare and the environment. Under the Act, the federal government may respond whenever there is a release or a substantial threat of a release into the environment of a hazardous substance or of other pollutants or contaminants which may present an imminent and

substantial danger to public health or welfare (section 104). Response activities are to be taken, to the extent possible, in accordance with the National Contingency Plan (40 CFR Part 300), which was originally developed under the CWA and which has been revised to reflect the responsibilities and authority created by CERCLA. EPA emphasizes that notification based on reportable quantities is merely a trigger for informing the government of a release so that the appropriate federal personnel can evaluate the need for a federal response action and undertake any necessary response (removal or remedial action) in a timely fashion. Reportable quantities serve no other purpose; for example, a reportable quantity need not be released before a claim for damages or cleanup costs may be filed against the Hazardous Substance Response Trust Fund, Federal personnel will evaluate all reported releases, but will not necessarily initiate a removal or remedial action in response to all reported releases, because the release of a reportable quantity will not necessarily pose a hazard to public health or welfare or the environment. Government personnel will assess each release on a case-bycase basis.

B. Background of This Rulemaking

On May 25, 1983, EPA proposed a rule (48 FR 23552) to clarify procedures for reporting releases and to adjust reportable quantities for 387 of the 698 CERCLA hazardous substances. That Notice of Proposed Rulemaking (NPRM) also listed, for the first time, the "hazardous substances" designated by section 101(14) of CERCLA. The NPRM discussed in detail the CERCLA notification provisions (including the persons required to notify the NRC of a release, the substances for which notification is required, the types of releases subject to the notification requirements, and the exemptions from these requirements), the methodology and criteria used to adjust the reportable quantity levels, and the RQ adjustments proposed under section 102 of CERCLA and under section 311 of the CWA. That same day, EPA also published an Advance Notice of Proposed Rulemaking (ANPRM) concerning the designation of hazardous substances in addition to those specified in section 101(14) of the Act (48 FR 23602). In response to requests, and to increase the public's opportunity to express its opinion on the NPRM and ANPRM, the original 60-day comment period for both notices was extended by 30 days, so that the comment period closed on August 25, 1983. EPA received

136 comment letters totalling over 1,000 pages; these comments represent the first formal statements of public opinion on the methodology developed for adjusting RQs, the actual RQ adjustments proposed, and various issues relating to notification. A summary of the comments received. together with the Agency's responses, is contained in the Responses to Comments on the Notice of Proposed Rulemaking on the Adjustment of Reportable Quantities ["Responses to Comments"], which is available for inspection at Room S-325, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, D.C. 20460.

Today, the Agency is promulgating RQ adjustments and clarifications of reporting procedures. The RQs of 340 CERCLA hazardous substances (including 21 hazardous waste streams) are adjusted in this final rule. Today's Federal Register also contains an NPRM proposing RQ adjustments for 105 of the remaining 358 hazardous substances. All of these adjustments apply not only to CERCLA RQs, but to RQs established pursuant to section 311(b)(4) of the CWA. In preparing the final rule, EPA has carefully considered all of the public comments submitted on the proposals made in the May 25, 1983 NPRM.

Section II of this preamble notes the significant differences between today's rule and the NPRM and refers the reader to the detailed discussion of each change elsewhere in the preamble. Section III presents issues raised in the NPRM that are not resolved in today's rule. Sections IV, V, and VI discuss the operation of the rule, major public comments, and the Agency's responses to these comments. Section VII provides a summary of the analyses supporting the rule.

As was stated in the preamble to the proposed rule, other provisions of the Act may be applicable even where notification is not required. Therefore, nothing in this preamble or final rule should be interpreted as reflecting Agency policy or the applicable law with respect to other provisions of the Act. For example, a party responsible for a release is liable for the costs of cleaning up that release and for any natural resource damages, even if the release is not subject to the notification requirements of sections 103 (a) and (b). Similarly, claims may be filed against the Hazardous Substance Response Trust Fund for cleanup costs and damages even if less than a reportable quantity has been released. Moreover, proper reporting of a release in accordance with sections 103 (a) and (b) does not preclude liability for cleanup

costs. The fact that a release of a hazardous substance is properly reported or that it is not subject to the notification requirements of sections 103 (a) and (b) will not prevent EPA or other governmental agencies from taking response actions under section 104, seeking reimbursement from responsible parties under section 107, or pursuing an enforcement action against responsible parties. Note also that this rule does not affect hazardous substance reporting requirements imposed by certain other regulations and statutes. (See, e.g., the discussion of MARPOL 73/78 and TSCA section 8(e) in section IV.G. below.)

This final rule formally designates those substances which are listed under the statutes referred to in section 101(14). Substances listed under the Solid Waste Disposal Act, commonly known as the Resource Conservation and Recovery Act ("RCRA"), will now be "hazardous substances" under CERCLA, regardless of whether they are hazardous wastes under RCRA. This final rule does not otherwise address the designation of hazardous substances which are not already designated under the statutes listed in CERCLA section 101(14). The Agency has conducted several preliminary economic and technical analyses on this subject (see 48 FR 23603), and the May 25, 1983 ANPRM invited public comment. EPA has carefully reviewed the comments received and is in the process of further developing its designation policy. The Agency's designation policy will be the subject of a separate rulemaking.

C. Organization of the Final Rule

Today's final rule amends 40 CFR by adding Part 302. Section 302.1 describes the fourfold purpose of the new regulation, including (1) listing those substances designated as hazardous under section 101(14) of CERCLA; (2) identifying reportable quantities for these substances; (3) describing the notification requirements for releases of these substances; and (4) identifying reportable quantities for hazardous substances that were previously assigned RQs under section 311(b)(4) of the Clean Water Act.

Section 302.2 explains the abbreviations used in the rule. Section 302.3 defines the following terms:

- 1. "The Act," "CERCLA," and "Superfund"
- 2. "Administrator"
- 3. "Consumer product"
- 4. "Environment"
- 5. "Facility"
- 6. "Hazardous substance"
- 7. "Hazardous waste"
- 8. "Navigable waters"

- 9. "Offshore facility"
- 10. "Onshore facility"
- 11. "Person"
- 12. "Release"13. "Reportable quantity"
- 14. "United States"
- 15. "Vessel"

Section 302.4 includes Table 302.4, which lists the substances designated as hazardous under section 101(14) (and now section 102) of CERCLA together with the RQ established for each substance. Section 302.4 also denotes the conditions whereby a solid waste not specifically listed as a hazardous substance can still be a hazardous substance if it exhibits any of certain characteristics. Section 302.5 provides that each quantity listed as the "Final RQ" in Table 302.4 is the reportable quantity for that listed hazardous substance. Section 302.5 also presents the ROs for unlisted hazardous wastes. Section 302.6 incorporates the statutory requirement that any person in charge of a vessel or facility must immediately notify the NRC whenever he or she has knowledge of any release of a hazardous substance from the vessel or facility in a quantity equal to or greater than the RQ; it also provides rules for determining when notification is required for releases of (1) mixtures or solutions that contain hazardous substances, and (2) releases of massive forms of metals. Section 302.7 incorporates by reference the statutory penalties for failure to notify the NRC of hazardous substance releases that equal or exceed the RQs. Today's rule also has an appendix that lists each hazardous substance in Chemical Abstracts Service Registry Number (CASRN) order.

Finally, this rule revises 40 CFR 117.3 to make the CWA RQs equal to those shown in Table 302.4 of 40 CFR 302.4.

II. Summary of Changes From the **Proposed Rule**

EPA has made the following changes from the proposed rule. Each change is discussed in detail in the preamble section noted.

- 1. Wastes classified as hazardous under RCRA that are properly delisted, deleted, or exempted by a state pursuant to an approved state program shall not be considered hazardous substances for purposes of CERCLA notification requirements so long as they do not contain any other listed CERCLA substances (see section IV.D.1.b.).
- 2. A supplement to Table 302.4 that lists CERCLA hazardous substances in CASRN order has been added as an appendix to today's rule to help users identify hazardous substances (see section IV.D.1.d.).

- 3. The exemption from notification requirements of releases of metal where the diameter of the particles of metal equals or exceeds 100 micrometers (0.004 inches) now appears both as a footnote to Table 302.4 and as part of 40 CFR 302.6 (see section IV.D.1.f.).
- 4. Proper disposal of hazardous substances in interim status facilities or facilities with final permits under RCRA need not be reported under CERCLA (see section IV.D.2.a.).
- 5. The rule for determining when notification is required for releases of mixtures and solutions containing hazardous substances is now stated in 40 CFR 302.6 (see section IV.D.3.b.).
- 6. "[N]ormal application of pesticides" is no longer defined in 40 CFR 302.3; instead, the preamble interprets the statutory phrase "application of pesticides" (see section IV.E.).
- 7. The specific penalties imposed by CERCLA Section 103(b) no longer appear in 40 CFR 302.7(a); instead, the section incorporates the statutory penalties by reference (see section IV.H.).
- 8. Language has been added to the 40 CFR 302.5(b) discussion of "Unlisted Hazardous Substances" to emphasize: (1) that the 100-pound RQ for unlisted hazardous wastes applies only to substances which are wastes prior to their initial release; and (2) that the RQ given in Table 302.4 for unlisted wastes that exhibit EP toxicity applies to the waste itself, not merely to the toxic contaminant (see sections IV.D.1. and V.F.4.).
- 9. Various RQ changes have been made (see section V.G.).
- 10. Retention of statutory RQ for methyl isocyanate (see section V.H.).
- Various other changes have been made in Table 302.4 (see sections V.G. through V.I.).

III. Issues Addressed in the NPRM But Not Resolved in This Rule

A. Continuous Releases

Section 103(f)(2) of CERCLA exempts certain releases from the general notification requirements of CERCLA if they are "continuous," "stable in quantity and rate," and notification has been given either under sections 103(a) and (b) "for a period sufficient to establish the continuity, quantity, and regularity" of the release or under section 103(c) (which relates to notification of the existence of certain facilities that are or have been used for storage, treatment, or disposal of hazardous wastes). Notification of continuous releases must be given "annually, or at such time as there is any statistically significant increase" in the quantity of the hazardous substance being released.

In the May 25, 1983 NPRM, EPA requested comment on the types of releases that could qualify for the section 103(f)(2) exemption and on possible notification systems for such releases. Many comments on these issues were received. Due to the complexity of the issues involved, the Agency has decided to study the continuous release exemption further; today's rule does not resolve continuous release issues.

B. Federally Permitted Releases

One of the exemptions from section 103 reporting requirements is for "federally permitted releases." The definition of "federally permitted release" in CERCLA section 101(10) specifically identifies releases permitted under other environmental statutes.

In the NPRM, EPA explained the Agency's interpretation of each of the types of releases exempted by the definition of "federally permitted release." EPA received many comments on various aspects of the federally permitted release exemption, most of which urged a broader interpretation of one or more of the federally permitted releases. Due to the complexity of the issues involved, the Agency has decided to study the scope of this exemption further; today's rule does not resolve the "federally permitted release" issue.

C. Radionuclide RQs

Radionuclides are hazardous substances under CERCLA because they are designated as hazardous air pollutants under section 112 of the Clean Air Act. The NPRM noted that EPA is considering several issues for future adjustments to radionuclide RQs. Two major related issues are:

- (1) The units the Agency should use to measure RQs; and
- (2) Whether one RQ should be set for all radionuclides or whether different RQs for specific radionuclides should be used.

EPA received many comments on these issues. Today's final rule does not adjust the RQ for radionuclides; the issue is being evaluated for action in a future rulemaking. Until then, the one-pound (0.454 kilogram) RQ is applicable. As noted in the NPRM, the Agency recognizes that the pound or kilogram is not a suitable unit on which to base a notification requirement for radionuclides, because releases much smaller than one pound may pose a significant threat to public health or welfare or the environment. The Agency encourages releasers to report

radionuclide releases of less than one pound.

D. Carcinogen RQs

The May 25, 1983 NPRM noted that the Agency has been collecting and evaluating data on the relative activity of substances as potential carcinogens. The methodology for adjusting RQs on the basis of potential carcinogenicity will be presented for public comment in a future rulemaking, and adjusted RQs for potentially carcinogenic substances will be proposed at that time. Until these substances receive final adjusted RQs, their statutory RQs will apply.

The NPRM published elsewhere in today's Federal Register proposes adjusted RQs for 12 substances that were evaluated as potential carcinogens but for which EPA's Carcinogen Assessment Group (CAG) did not find any sound evidence of potential carcinogenicity.

IV. Notification

A. Introduction

CERCLA sections 103 (a) and (b) require any person in charge of an offshore or onshore facility or a vessel to report to the National Response Center as soon as he or she has knowledge of any release of a hazardous substance that is equal to or greater than the reportable quantity. In the preamble to the May 25, 1983 NPRM, EPA elaborated on the notification requirements established by CERCLA, addressing such issues as the mechanics of notification, the persons required to notify the NRC of a release, the substances for which notification is required, the types of releases subject to the notification requirements, the exemptions from these requirements, and duplicate reporting. The following sections discuss comments received on these and other notification issues.

B. Purposes and Mechanics of Notification

Notification based on RQs serves as a trigger for informing the government of a release so that the need for response can be evaluated and any necessary response undertaken in a timely fashion. Federal personnel will evaluate all reported releases, although the government will not necessarily respond to all reported releases with a removal or remedial action. The reportable quantities do not themselves represent any determination that releases of a particular quantity are actually harmful to public health or welfare or the environment.

Reporting of releases pursuant to CERCLA sections 103 (a) and (b) is to be

made by telephone to the National Response Center. The toll-free number of the NRC is (800) 424-8802; in the Washington, D.C. metropolitan area the number is (202) 426-2675. Pursuant to the National Contingency Plan (NCP) (40 CFR Part 300), the duty officer at the NRC will record pertinent information about the release and relay this release information directly to an On-Scene Coordinator ("OSC") at either the relevant EPA regional office or the relevant U.S. Coast Guard district office. The OSC will then evaluate the circumstances of the release, give pertinent information to appropriate state and local officials, and decide whether and in what manner the federal government should respond to the release.

A few commenters stated that it is a misuse of time and money to report releases which do not result in a federal removal or remedial action; they argued that the probability of a federal response action should be an important consideration in designing the notification system. EPA disagrees. The government is not obligated to respond to every release to which it has authority to respond and therefore should not design a notification system on such a basis. Reportable quantities have been established so that the Agency is alerted promptly to situations that may warrant a government response. While EPA will not initiate a removal or remedial action for every release that is reported, EPA must obtain the information it needs to determine who has response authority, to assess whether there is a need for a federal response action, and to check that action is properly taken by others where appropriate.

C. Persons Covered by This Rule

The NPRM preamble considered the issue of which persons are required to notify the NRC of a release. In so doing, definitions of the key terms of the CERCLA notification requirements were presented. Responses to the major comments received are provided below.

1. Facility

Several commenters discussed the Agency's statement that "for notification purposes, EPA will consider the entire contiguous plant or installation and contiguous grounds under common ownership to be the reporting facility rather than each vent, pipe, or piece of equipment at such a plant" (48 FR 23553). Some of the commenters appeared to misinterpret EPA's intentions.

The Agency intended the statement to reflect its belief that numerous

concurrent releases (releases occurring within the same 24-hour period) of the same hazardous substance from one contiguous plant or installation need not be reported individually, but should be reported in a single notification. This policy will avoid unnecessary and burdensome calls where a plant is experiencing more than one reportable release, because it allows the regulated community to consider multiple concurrent releases of the same substance as one release for reporting purposes.

The comments received favored this policy, although a few commenters suggested that EPA expand the definition of facility to include outdoor areas within the boundary of a plant. In addition, some commenters questioned whether a releaser must aggregate the total volume of concurrent releases in order to determine if a reportable quantity has been met or exceeded.

The "facility" from which a release has entered or may enter into the environment does not include outdoor areas. Rather, the definition of "environment" includes all outdoor (i.e., not completely enclosed) areas surrounding and within a given facility. All concurrent releases of the same substance from a particular facility into the environment must be aggregated to determine if an RQ has been exceeded. Releases from separate facilities however, need not be aggregated. EPA intends for multiple concurrent releases of the same substance from a single facility to be reported in a single notification as a single release. Where multiple concurrent RQ releases are occurring at various parts of a contiguous plant or installation on contiguous grounds under common ownership (e.g., at a chemical manufacturing plant or an oil refinery), the person in charge should also report these multiple concurrent releases in a single notification. The policy of consolidating notifications also applies to concurrent releases from separate storage facilities, so long as the releases are at the same location, i.e., located on contiguous grounds under common ownership.

2. Person In Charge

The NPRM preamble discussion of "person in charge" stated that EPA would not seek to designate the specific individuals or positions within business entities who would be responsible for reporting hazardous substance releases. The Agency indicated that such decisions are better made by the management of the affected organization. Two commenters argued

that the lack of a clear definition of "person in charge" would result in responsible individuals being unaware of their duty to report releases and would lead to delayed reporting or failure to report. EPA was urged to define explicitly the term "person in charge."

EPA disagrees with these commenters. The proper assignment of reporting responsibilities depends on the specific operation involved, management structure, and other case-specific considerations. It would be unnecessary and unwise for the government to try to determine "persons in charge" at all entities affected by CERCLA.

D. Releases Covered by This Rule

The NPRM addressed the substances for which notification is required, the types of releases subject to the notification requirements, and the determination of when a reportable quantity has been released. Many comments were received on various topics under each of these issues.

1. Hazardous Substances Subject to This Rule

a. ICRE Substances. Any hazardous waste having the characteristics identified or listed pursuant to Section 3001 of the Solid Waste Disposal Act (commonly known as the Resource Conservation and Recovery Act, or "RCRA"), but not including any waste the regulation of which has been suspended by Act of Congress, is considered a hazardous substance under section 101(14)(C) of CERCLA. These characteristics are commonly known as ICRE: ignitability, corrosivity, reactivity, and extraction procedure toxicity (see 40 CFR 261.21–261.24).

The obligation to report releases to the environment of substances exhibiting the characteristics of ignitability, corrosivity, or reactivity has been the subject of some confusion.1 Under section 103(a) of CERCLA, persons in charge of a vessel or facility must notify the NRC of the release of a "hazardous substance." The term "hazardous substance" includes all substances designated in § 302.4 of today's rule as well as wastes exhibiting the ICR characteristics under RCRA. Therefore, the release of a nondesignated substance exhibiting an ICR characteristic is the release of a hazardous substance only if the

substance is a waste. If a non-designated ICR substance is spilled and immediately cleaned up for repackaging, reprocessing, recycling, or reuse, it is not a waste and the spill need not be reported (see 45 FR 78540, Nov. 25, 1980). However, if the substance is not cleaned up, or is cleaned up for eventual disposal, it is then a waste (and thus a hazardous substance) which has been released to the environment and must be reported if it exceeds the RQ.

The Agency acknowledges that the proposed rulemaking may not have been clear on this point. Accordingly, we are publishing elsewhere in today's Federal Register a proposal to set the RQ at 100 pounds for non-designated substances which are not wastes prior to their initial release but which exhibit an ICR characteristic.

Pending completion of final rulemaking on that proposal, notice given to the NRC pursuant to 49 CFR 171.15, if required under that section, of the release of a non-designated substance that is not a waste prior to its initial release, will be deemed to satisfy the reporting requirements of section 103(a) of CERCLA. Note that this policy does not apply to the release of nondesignated substances which exhibit an ICR characteristic and which are wastes prior to their initial release. Such releases must be reported if they are equal to or in excess of the 100-pound RQ. Section 302.5(b) of today's final rule has been clarified to show the distinction between substances that are wastes prior to their initial release and substances that become wastes after their initial release.

b. State Delisting under RCRA. Several commenters disagreed with EPA's statement in the NPRM that reporting is required even for releases of hazardous waste which the state has properly delisted, deleted, or exempted from the state's RCRA program pursuant to authority granted by EPA. Upon further review of the RCRA regulations governing "delisting" of RCRA hazardous wastes, EPA has decided to alter its policy. Under 40 CFR 260.22, a person may petition for a regulatory amendment to exclude a waste at a particular generating facility from the lists of hazardous wastes in §§ 261.30-261.33. The petitioner must demonstrate that the waste produced by the particular facility does not meet any of the criteria under which the waste type was listed or characterized as a hazardous waste. Moreover, if granted, the exclusion applies only to the waste generated at the individual facility covered by the petitioner's demonstration. State RCRA regulations

must be substantially equivalent to these federal regulations to obtain EPA approval of the state program.

Once a specific waste from a particular facility has been shown not to contain constituents or exhibit characteristics that are considered hazardous under RCRA, there appears to be no reason to require notification under CERCLA of a release of the exempted waste. By definition, exempted wastes lack the hazardous constituents or characteristics for which the waste type was listed as hazardous. Therefore, so long as a state-exempted waste does not contain any other listed CERCLA substances, EPA will not consider the exempted waste subject to CERCLA notification requirements.

c. Petroleum Exclusion. As defined in CERCLA section 101(14), the term "hazardous substance" under CERCLA does not include

petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).

Some commenters raised questions about the limits of the exclusion of petroleum from the definition of hazardous substance. EPA interprets the petroleum exclusion to apply to materials such as crude oil, petroleum feedstocks, and refined petroleum products, even if a specifically listed or designated hazardous substance is present in such products. However, EPA does not consider materials such as waste oil to which listed CERCLA substances have been added to be within the petroleum exclusion. Similarly, pesticides are not within the petroleum exclusion, even though the active ingredients of the pesticide may be contained in a petroleum distillate; when an RQ of a listed pesticide is released, the release must be reported.

d. Nomenclature. The May 25, 1983 NPRM requested comments on several options for a nomenclature system that would be most useful for the promulgated list of CERCLA hazardous substances. The first option was that actually employed in Table 302.4 as it appeared in the NPRM, i.e., the names of the substances as they appear in the environmental statutes (and implementing regulations) that are incorporated in the CERCLA definition of a hazardous substance. A second alternative presented was to use only the Chemical Abstracts Collective Index System name, and a third was to list the

^{&#}x27;Substances exhibiting the characteristic of extraction procedure (EP) toxicity are not at issue here, because the chemicals at which the EP toxicity test is aimed are all specifically designated as hazardous under Section 302.4 of today's regulation.

major synonyms for each hazardous substance.

Five commenters recommended use of the names provided by the Chemical Abstracts Service (CAS) in the Chemical Abstracts Collective Index System. Although use of the Collective Index names would avoid much of the confusion involved with using synonyms and would serve as positive identification of the material, many of the individuals who may need to report releases will not have easy access to Collective Index names for the substances under their control. Even among professional chemists, CAS Collective Index names are not vet widely used. For example, the term "chloroform" remains widely preferred over the Collective Index name "methane, trichloro-."

Several commenters recommended listing the "major" synonyms for each substance, pointing out that most individuals who must report releases are not chemists and therefore are familiar with the substance only by the name provided by the supplier. The commenters stated that the potential releaser cannot be expected to determine whether the substance he is dealing with is a CERCLA hazardous substance unless the name provided is also on the CERCLA list.

The Agency recognizes that listing major synonyms would, in some respects, simplify determining whether a particular named chemical is a hazardous substance. However, as several commenters pointed out, the difficulties involved in making such a list would be great. For some of the substances, more than 80 synonyms might be necessary, making Table 302.4 very unwieldy. The length of the table would be increased by a factor of at least five, increasing the difficulty of finding a named material on the list. Moreover, the choice of synonyms to be included would still be subjective, and constant updates would be needed as omitted names were found.

The names of the CERCLA hazardous substances that appeared in Table 302.4 are those that are already familiar to the regulated community under other statutes. The Agency has therefore determined that, in today's final rule, Table 302.4 will contain the same names as were listed in the NPRM, plus any other names not previously discovered by which a substance is identified in the other statutes listed in section 101(14) and their implementing regulations. Several commenters suggested that in addition to the list of names in Table 302.4, a supplementary list in CAS Registry Number order be provided. EPA has adopted this suggestion. The

CAS Registry Number, when available, uniquely identifies the designated hazardous substance. Such a list appears as an appendix to the rule as a convenience to the regulated community.

e. Generic Classes of Organic and Metallic Compounds. EPA decided not to establish RQs for the many broad generic classes of organic and metallic compounds designated as toxic pollutants under section 307(a) of the Clean Water Act, such as "chlorinated phenols," "phthalate esters," 'polynuclear aromatic hydrocarbons," and "zinc and compounds." The majority of the commenters who addressed this issue understood and supported this decision. It was recognized that to establish a single RQ for broad classes of hazardous substances would be inappropriate for many of the compounds within each class. Many of the generic classes of compounds encompass hundreds or even thousands of specific compounds. It would be virtually impossible for the Agency to develop a reportable quantity for a generic class of compounds that would take into account the varying characteristics of all of the specific compounds in the class. To establish reportable quantities for generic groups of chemicals would conflict with existing knowledge of individual chemicals and their properties.

Several commenters were unsure of the Agency's position on reporting and liability for generic classes. These commenters believed that if no other RQ is established for a generic class, then they must still use the statutory one pound RQ established under CERCLA section 102(b). EPA has determined that the notification requirements need apply only to those specific compounds for which RQs are listed in Table 302.4, rather than to the generic classes of compounds. However, as the Agency indicated in the NPRM preamble, this does not preclude liability with respect to releases of specific compounds which are within one of these generic listings but which are not listed in Table 302.4. In other words, a releaser is liable for the cleanup of releases of hazardous substances which fall under any of the broad, generic classes, but does not have to report such releases when the specific compounds, and hence the RQs, are not listed in Table 302.4.

f. Massive Forms of Metals. EPA proposed that it would not require notification of releases of massive forms of the twelve solid metals originally listed under CWA section 307(a) when the diameter of the pieces of metal released equals or exceeds 100 micrometers (0.004 inches). Eleven of

fourteen commenters supported this approach, while three commenters suggested a smaller cutoff level. One of these commenters suggested that the cutoff be set at 10 micrometers rather than 100 micrometers, consistent with standards developed pursuant to the Occupational Safety and Health Act.

The cutoff size was deliberately set ten times larger than the maximum size considered by EPA to be respirable dust to ensure that releases containing small particles of metals would result in notification to the NRC. The Agency has determined that the 100-micrometer cutoff is sufficiently small to be the particle size below which notification of release of an RQ is required. The primary purpose of notification is to ensure that releasers notify the government so that the government, pursuant to the NCP, can assess the need to respond to the release. Although it is extremely unlikely that a release of solid metal particles of 100 micrometers or larger would require a response, the Agency wants to be notified of releases of smaller particles because, under some circumstances, releases of metal particles in the 10- to 100-micrometer range may require a response.

One of the eleven commenters supporting the 100-micrometer cutoff level suggested that this policy be more prominently displayed in the wording of the final rule. (In the NPRM, the 100-micrometer limitation appeared only as a footnote to Table 302.4.) 40 CFR 302.6 now states:

Notification of the release of an RQ of solid particles of antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, or zinc is not required if the mean diameter of the particles released is larger than 100 micrometers (0.004 inches).

A particle larger than 100 micrometers in diameter will not pass through an American Society for Testing and Materials standard 140-mesh sieve.

2. Definition of Releases Subject to This Rule

a. Disposal of Hazardous Substances in RCRA Facilities. The May 25, 1983 NPRM discussion of the term "release" did not specify whether the term included or excluded the proper disposal of hazardous substances at a disposal facility that has been accorded interim status or that has received a final permit under RCRA. Some commenters suggested clarification of the meaning of the term in this regard.

EPA agrees that disposal of hazardous substances at a disposal facility in accordance with EPA regulations is not subject to CERCLA notification provisions. Where the disposal of wastes into permitted or interim status facilities is properly documented through the RCRA manifest system and RCRA regulations are followed. notification under CERCLA does not provide a significant additional benefit, so long as the facility is in substantial compliance with all applicable regulations and permit conditions. Where the disposer knows that the facility is not in substantial compliance, disposal of an RQ of a hazardous substance must be reported to the NRC. Of course, spills and accidents occurring during disposal that result in releases of reportable quantities of hazardous substances must also be reported to the NRC.

b. Releases "Into the Environment." A key element of the definition of "release" is the phrase "into the environment." As defined in CERCLA section 101(22), a hazardous substance must be released "into the environment" in a reportable quantity before notification of the release is required under CERCLA. Thus, the distinction between the "facility" (or "vessel") from which a substance is released and the "environment" into which a substance passes is the determining factor in requiring notification.

Hazardous substances may be released "into the environment" even if they remain on plant or installation grounds. Examples of such releases are spills from tanks or valves onto concrete pads or into lined ditches open to the outside air, releases from pipes into open lagoons or ponds, or any other discharges that are not wholly contained within buildings or structures. Such a release, if it occurs in a reportable quantity (e.g., evaporation of an RQ into the air from a dike or concrete pad), must be reported under CERCLA. On the other hand, hazardous substances may be spilled at a plant or installation but not enter the environment, e.g., when the substance spills onto the concrete floor of an enclosed manufacturing plant. Such a spill would need to be reported only if the substance were in some way to leave the building or structure in a reportable quantity. (Note, however, that the federal government may still respond and recover costs where there is a threatened release into the environment.)

Most of the commenters on this issue agreed with EPA's position that the distinction between "facility" and "environment" is central to determining when notification is required and that a release "into the environment" is a reportable event, but they disagreed with EPA on when a release reaches the

environment. The most common suggestion was to exclude from the definition of "environment" all of the grounds surrounding a facility that are controlled by the facility's owners or operators. Several commenters suggested that reporting should not be required as long as the facility operators are in control of released substances and initiate swift and adequate response efforts to prevent the environment from being endangered, consistent with prudent management practices. It was also suggested that so long as a release remains on facility property it would be inaccessible to the public and thus would not be a public hazard.

While EPA recognizes and appreciates the caution exercised by the majority of handlers of hazardous substances, accepting this redefinition of "environment" would be inconsistent both with the broad definition of environment in CERCLA section 101(8) and with the purpose of reporting. A primary function of CERCLA is to ensure that the government is made aware of any potentially serious release of a hazardous substance, so that the government has the opportunity to determine whether and how it needs to act. To exclude releases occurring near handling and storage facilities from **CERCLA** notification requirements would keep the federal government unaware of a very common form of release that may require government action. Releases onto the grounds surrounding a plant can migrate off-site through ground water or through release into the air. Defining "environment" to begin at the property line of a manufacturing plant or other installation is thus unacceptable to the Agency.

Following this same reasoning, defining environment in terms of public access, as several commenters suggested, is also unacceptable. Lack of public access to the site of a release does not preclude adverse effects on public health or welfare or the environment from the release. The volatilization of substances or their migration via ground water are obvious examples of how releases can travel offsite and threaten adjacent areas. EPA does not believe a reinterpretation of when a release enters the environment is necessary. A release into the environment will be reportable whether or not it remains on the grounds of a facility site.

One commenter requested that EPA clarify the meaning of the term "ambient air" in the definition of "environment" provided in 40 CFR Section 302.3. For the purposes of CERCLA, "ambient air" shall refer to the air that is not

completely enclosed in a building or structure and that is over and around the grounds of a facility.² A release into the air of a building or structure that does not reach the ambient air (either directly or via a ventilation system) is not a reportable event under CERCLA.

c. "Workplace Exposure" Exclusion. CERCLA section 101(22) excludes from the definition of release "any release which results in exposure to persons solely within a workplace, with respect to a claim which such persons may assert against the employer of such persons." In the May 25, 1983 NPRM preamble, EPA stated that the workplace exclusion was apparently intended to restrict the potential scope of third-party actions for personal injuries under the Act and that the limitation of hazardous substance exposure to persons within a workplace is not relevant in determining whether

notification is appropriate.

Several commenters argued that the workplace exposure exclusion should be applied to workplace releases for purposes of CERCLA notification requirements. EPA disagrees. By its terms, the exclusion applies only to claims compensable through workers' compensation. The availability of workers' compensation does not appear to have any relation to the need for reporting of hazardous substance releases that threaten public health or welfare or the environment. While Congress intended to bar payment of Superfund monies to persons covered by workers' compensation systems, the legislative history clearly indicates that Congress did not intend to exclude all workplace releases of hazardous substances from CERCLA reporting requirements and response authorities. "For example, if a release occurring solely within a workplace created a hazard of damage to human life or to the environment, it is contemplated that the Fund would have the authority to respond with all of its authorities except for compensating workers whose employers are liable for their injuries under worker's compensation law" (S. Rep. 848, 96th Cong., 2d Sess. 94 (1980)). Thus, the need for notification must be determined by whether or not a release from a CERCLA "facility" or "vessel"

² The Agency's interpretation of "ambient air" for CERCLA reporting purposes differs from the definition of ambient air in the regulations promulgated pursuant to the Clean Air Act (CAA). These regulations define ambient air with reference to public access (see 40 CFR 50.1(e)). EPA believes that the CAA definition is inappropriate for CERCLA purposes, because the point of release for some potentially serious releases may be inaccessible to the general public, e.g., on private property.

enters "into the environment." If a release does not remain wholly contained within a building or structure, then it is a release into the environment for CERCLA purposes, whether or not it occurs within a workplace.

3. Determination of When a Reportable Quantity Has Been Released

Once it has been determined that a hazardous substance release is covered by CERCLA, the releaser must determine if the release is in a quantity equal to or greater than the reportable quantity of that substance. Two critical issues in making this determination are the period of release and the application of RQs to mixtures and solutions. This section discusses EPA's positions on these issues and responds to comments received on the NPRM.

a. Period of Release. EPA proposed to use a 24-hour period for measuring whether the reportable quantity of a substance has been released, noting that the 24-hour period has been used successfully under regulations implementing the CWA section 311. As soon as the person in charge knows that the amount of a release within that period equals or exceeds the applicable reportable quantity, the NRC must be notified. Eleven commenters concurred with the Agency's decision to use the 24hour period, citing the consistency of the decision with the CWA section 311 regulations.

Three commenters misinterpreted the purpose of the 24-hour period as the time a person has in which to establish the knowledge that a release has occurred. EPA wants to clarify that when the amount of a CERCLA hazardous substance release equals or exceeds the reportable quantity, the person in charge, once he or she knows of the release, must immediately notify the National Response Center. The 24hour period refers to the period within which a reportable quantity of a hazardous substance must be released for the release to be considered reportable; it does not refer to the time available for a person to report a release. Such reporting must occur immediately.

b. Mixtures of Hazardous Substances. When determining if notification is required for releases of mixtures and solutions containing hazardous substances, the Agency intends to apply the mixture rule developed in connection with the CWA section 311 regulations. This rule provides that "[d]ischarges of mixtures and solutions are subject to these regulations only where a component hazardous substance of the mixture or solution is discharged in a quantity equal to or

greater than its RQ" (44 FR 50767, August 29, 1979). RQs of different substances are not additive under the mixture rule, so that spilling a mixture containing half an RQ of one hazardous substance and half an RQ of another hazardous substance does not require a report.

Most commenters supported using the CWA mixture rule. These commenters agreed with EPA that it is generally technically appropriate to consider the RQs of component hazardous substances of a mixture individually when determining if a report is required. They also note that applying the CWA mixture rule to CERCLA hazardous substances would allow the regulated community to continue with existing monitoring and notification procedures.

One commenter opposed use of the CWA mixture rule, arguing that EPA has no data to support the implicit assumption that toxic effects are not additive or synergistic. The commenter stated that additive or synergistic effects often occur.

EPA recognizes that the toxic effects of chemical mixtures may in some instances be additive, synergistic, or even antagonistic. Unfortunately, only limited data exist on the extent of such effects. Moreover, trying to incorporate such data into the mixture rule for CERCLA notification purposes would make the determination of whether an RQ had been released much more complex and confusing. The RQ would vary with each mixture, depending on whether the components of the mixture had additive, synergistic, or antagonistic effects. Thus, a different RQ would have to be determined for each potential release situation, a highly complex approach that EPA has consistently tried to avoid (see section V.C.2. below). To be effective, the CERCLA notification system must be simple to administer and apply. For this reason, the Agency will apply the CWA mixture rulecontained in § 302.6 of today's rule—to releases subject to CERCLA reporting requirements.

Several commenters were uncertain when to apply the mixture rule to the various RCRA regulated wastes (F and K lists) and to the unlisted ICRE wastes. The Agency emphasizes that, for CERCLA purposes, the CWA mixture rule applies to ICRE wastes and to the RCRA F and K waste streams (all of which tend to be mixtures), if the concentrations of all the hazardous substances in the waste are known. If the concentrations of the substances are unknown, the RQ of the waste stream or unlisted waste applies. In addition, if the person in charge knows that an RQ of a hazardous constituent of a waste has

been released before the RQ for the waste stream or unlisted waste has been exceeded, he or she must report the release. However, CERCLA does not itself impose any testing reqirements.

Some commenters objected to application of the CWA mixture rule to waste streams, arguing that underreporting could result if the components of the waste were incorrectly identified. The Agency, however, maintains that if the concentrations of the hazardous substances contained in the mixture are known, waste streams should be treated like any other mixture. If the releaser does not know the composition of the listed waste stream, EPA agrees that applying the RQ of the entire waste stream is the only reasonably conservative alternative.

For example, a mixture of spent (used) cresols and nitrobenzene is identified in the RCRA regulations (40 CFR 261.31) as a hazardous waste from a non-specific source, F004. F004 has an RQ of 100 pounds, because the RQ for cresols is 100 pounds, the RQ for nitrobenzene is 1000 pounds, and the lowest RQ for any of the hazardous substances in the mixture applies. If the person in charge knows only that a waste material contains unspecified amounts of cresols and nitrobenzene, then he or she would have to report if 100 pounds or more of the waste were released. The person in charge may, however, if sufficient data are available, apply the CWA mixture rule. If he or she knows that the F004 waste contains 50 percent cresols and 50 percent nitrobenzene, the releaser would have to report only when the total release equalled or exceeded 200 pounds, because at that point the 100pound RQ of the cresol component would be equalled or exceeded. Because the concentrations of the hazardous substances in the waste stream are known, there is no reason to restrict the releaser to the F004 waste RQ of 100 pounds. In this case, for notification purposes, the waste stream is no different than a known mixture of pure substances.

A few commenters questioned whether the mixture rule applies to products where the active chemical ingredient for which it is named is present in less than 100 percent concentration. While the NPRM discussion of the mixture rule did not explicitly mention "formulations of less than 100 percent strength," such formulations are indeed mixtures or solutions and are covered by the mixture rule. Two commenters wanted EPA to waive the CERCLA notification requirements for mixtures containing very low concentrations of hazardous

substances. These commenters suggested assigning a concentration value to each hazardous substance below which notification would not be required. This approach would, in effect, result in two rules for each substance, making application of the mixture rule cumbersome for the regulated community. Moreover, determining each concentration value would require the use of specific release scenarios, a methodology that EPA has rejected (see 48 FR 23569 and Section V.C.3. of this preamble). For these reasons, EPA is retaining the mixture rule for all mixtures containing any concentration of a hazardous substance, no matter how low the concentration.

E. Exemptions From the CERCLA Notification Requirements

CERCLA provides four types of exemptions from the notification requirements applicable to releases of hazardous substances in reportable quantities. Each type of exemption was discussed in the May 25, 1983 NPRM preamble. Responses to major comments received on the exemption for the application of pesticide products registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) are provided below. Issues relating to the limited exemption for continuous releases and exemptions for "federally permitted releases" are not resolved in today's rule.

Section 103(e) of CERCLA exempts from the notification provisions of the Act "the application of a pesticide product registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) [and] the handling and storage of such a pesticide product by an agricultural producer." In the proposed rule, EPA interpreted the application of pesticides as the normal application of registered pesticides (and pesticides used in accordance with FIFRA section 5 experimental use permits or FIFRA section 18 emergency exemptions) in ways that are consistent with the labeling instructions.

Commenters objected to several aspects of EPA's pesticide exemption policy as stated in the NPRM. The first category of objections concerned the wording of the policy. Some commenters suggested that the phrase "pursuant to the label directions" as used in the definition of "normal application of pesticides" applies more to consumer goods than to industrial chemicals, because the label directions of the latter may not include complete application practices. Other commenters objected to the use of the term "normal" in the definition of "normal application of pesticides," because the term does not

appear in CERCLA section 103(e) and constitutes a potentially unnecessary restriction on the exemption.

EPA agrees that the definition of "normal application of pesticides" is unnecessary, and the definition does not appear in today's final rule. The legislative history of CERCLA suggests that Congress intended that the pesticide exemption apply to the application of a pesticide generally in accordance with its purpose. S. Rep. No. 848, 96th Cong., 2d Sess. 45 (July 13, 1980). While strict compliance with labeling direction is not a prerequisite for the exemption, the extent of compliance will be a critical factor in determining whether the application was generally in accordance with the pesticide's purpose. EPA does not consider a spill of a pesticide to be either an "application" of the pesticide or in accordance with the pesticide's purpose. Consequently, such spills must be reported. Note, moreover, that use of a pesticide inconsistent with its labeling is a violation of FIFRA that is potentially subject to both civil and criminal penalties.

F. Duplicate Reporting

1. General

EPA is seeking to minimize unnecessary duplication between CERCLA reporting requirements and the reporting requirements of other environmental statutes. However, some commenters complained of the duplicative reporting burden created by CERCLA and of a lack of coordination among federal, state, and local agencies. Eight of these commenters suggested that one report to the NRC should suffice for all government agencies. Currently, one call to the NRC fulfills the requirement to report releases of hazardous substances under CERCLA and several other regulatory programs, including the Clean Water Act, the Resource Conservation and Recovery Act, and the Hazardous Materials Transportation Act, which is administered by the Department of Transportation. The May 25, 1983 NPRM preamble discussed the equivalence of compliance with certain RCRA reporting requirements and CERCLA notification requirements. Section 103(f)(1) of CERCLA exempts from the notification requirements of sections 103 (a) and (b) releases that are subject to reporting requirements (or specifically exempted from such reporting) under Subtitle C of RCRA and have been reported to the National Response Center. The Agency has reviewed all other areas of duplicate reporting created by CERCLA and has found that the burden imposed by

CERCLA notification requirements is not great. At most, the duplication that exists may require that more than one telephone call concerning a release be made by the releaser and recorded by government agencies.

Today's final rule does not affect hazardous substance reporting requirements imposed by certain other regulations and statutes, as discussed in section IV.G. below.

2. Newspaper Notification Requirement

CERCLA section 111(g) requires that owners or operators of any vessel or facility "provide reasonable notice to potential injured parties by publication in local newspapers serving the affected area" of any release of a hazardous substance. One commenter asked whether RQ notification requirements revoke section 111(g). The newspaper notification requirement established by section 111(g) of CERCLA is not affected by any of the notification requirements in today's rule.

G. Regulatory Consistency

EPA has always made every effort to coordinate its regulations of hazardous substances with other government agencies. For example, EPA and the Department of Transportation (DOT) (which includes the U.S. Coast Guard) have cooperated over the years in a series of regulatory actions, including the establishment of the centralized tollfree telephone number for reporting spills of hazardous substances to the NRC. EPA recognizes that cooperation with other agencies is vital to the development of clear and consistent regulatory policies in areas of complementary or shared responsibility. The Agency has carefully reviewed comments from other government agencies on the NPRM and does not believe that the CERCLA ROs or notification requirements create regulatory inconsistencies.

Many commenters questioned the extent of EPA-DOT coordination concerning CERCLA RQ regulations and regulations pursuant to the Hazardous Materials Transportation Act (HMTA). EPA recognizes the need for consistency between the RQ regulations and DOT's Hazardous Material Regulations (HMR). The Agency believes that the cooperative efforts of EPA and DOT will result in an RQ adjustment regulatory approach that will be consistent with any related regulations promulgated by DOT. EPA has promoted and will continue to promote coordination between the RQ adjustment regulation and the HMR. EPA wishes to clarify, however, that while it strongly supports

cooperation between EPA and DOT, it has no authority to revise the HMR. Any changes must be made by DOT.

The International Convention for the Prevention of Pollution from Ships (MARPOL 73/78), as implemented through the Act to Prevent Pollution from Ships (33 U.S.C. 1901 et seq.), currently imposes reporting requirements concerning releases of harmful substances from U.S. ships wherever located and from foreign ships within the navigable waters of the United States. Under 33 U.S.C. 1906, as soon as a person in charge of a ship has knowledge of an event involving the actual or probable release into the sea of a harmful substance (broadly defined), he or she must report the incident to the Secretary of the department in which the Coast Guard is operating (currently DOT). No reportable quantities are specified. Thus, MARPOL 73/78, as implemented by 33 U.S.C. § 1906, may require reporting even where CERCLA does not.

Annex II of MARPOL 73/78 prohibits discharges of noxious liquid substances within 12 miles from shore. Beyond 12 miles, discharges are either prohibited or limited, depending on the nature of the cargo and compliance with several criteria. Annex II, scheduled to take effect in October 1986, applies to all ships carrying noxious liquid substances in bulk and limits operational discharges of these substances by setting minimum or maximum numerical values for distance from shore, depth of water, ship speed, concentration of substance in ship's wake, and maximum quantity of cargo residues that may be discharged. To improve regulatory consistency and enhance coordination with the U.S. Coast Guard, EPA intends to investigate the scope and intent of MARPOL 73/78 Annex II regulations (including a Coast Guard ANPRM (48 FR 1519-1521, Jan. 13, 1983) dealing with certain types of hazardous substances that are intended to be regulated in accord with MARPOL) and to examine regulatory and technical concerns arising from coordination between CERCLA and MARPOL.

Section 8(e) of the Toxic Substances Control Act (TSCA) may also require reporting where CERCLA does not. Pursuant to a Statement of Interpretation published March 16, 1978, 43 FR 11110, all emergency incidents of environmental contamination that present a "substantial risk of injury to health or the environment" must be reported to EPA under TSCA section 8(e). Section 8(e) could require notification even where no CERCLA hazardous substances or RQs have been

released. Persons subject to the notification requirement include both natural persons and business entities engaged in the manufacturing, processing, or commercial distribution of chemical substances or mixtures. No notification is required if the manufacturer, processor, or distributor knows that EPA has been informed of the risk presented by the incident. For hazardous substance releases subject to CERCLA, a single notification to the NRC will satisfy both CERCLA and TSCA section 8(e) reporting requirements; the Agency will ensure that section 8(e) reports are passed to the proper authorities.

H. Penalties

Section 302.7(a) of the proposed rule set forth the penalties imposed by CERCLA Section 103(b) for failure to notify the NRC of a reportable release. Section 302.7(a) of today's final rule does not specify the penalties established by CERCLA section 103(b); rather, the rule incorporates the statutory penalties by reference. The regulation still informs responsible parties of the statutory sanctions for failure to notify, but the change will avoid the need to amend 40 CFR 302.7 should CERCLA section 103(b) be amended. Currently, CERCLA section 103(b) provides that any person in charge of a facility or vessel from which a hazardous substance is released, other than a federally permitted release, in a quantity equal to or greater than the reportable quantity, who fails to notify the appropriate federal agency as soon as he has knowledge of the release, shall upon conviction be fined not more than \$10,000 or imprisoned for not more than one year, or both. Notifications received under sections 103(a) or 103(b) or information obtained by such notice cannot be used against any reporting person in any criminal case, except a prosecution for perjury or for giving a false statement.

V. Reportable Quantity Adjustments

A. Introduction

The primary purpose of the CERCLA notification requirements, discussed above in section IV, is to ensure that releasers notify the government so that the need for a federal response can be evaluated and any necessary response undertaken in a timely fashion.

With this purpose in mind, EPA proposed adjustments to the statutory RQs of CERCLA hazardous substances based on specific scientific and technical criteria that relate to the possibility of harm from the release of a hazardous substance in a reportable

quantity. The adjusted RQs do not reflect a determination that a release of a substance will be hazardous at the RO level and not hazardous below that level. EPA has not attempted to make such a determination because the actual hazard will vary with the unique circumstances of the release, and extensive data and analysis would be necessary to determine the hazard presented by each substance in a number of possible circumstances. Instead, the RQs reflect the Agency's judgment of which releases should trigger mandatory notification to the federal government so that the government may assess to what extent, if any, a federal removal or remedial action may be necessary.

Over forty commenters supported both the methodology EPA used in determining RQs and the results of this methodology. These commenters agreed that the RQ adjustments will:

- (1) Increase the efficiency and certainty of the Superfund program;
- (2) Reduce burdens on the regulated community; and
- (3) Improve EPA's ability to concentrate its attention and resources on the releases that are potentially most threatening to public health or welfare or the environment.

In addition, EPA received many comments on various specific topics relating to the RQ adjustments that were discussed in the NPRM. Some commenters also discussed issues that were not explicitly addressed in the proposed rule. Responses to both types of comments are presented below.

B. Number of Reportable Quantity Levels and Their Values

1. Five RQ Levels

For purposes of making RQ adjustments under CERCLA, EPA has adopted the five RQ levels of 1, 10, 100, 1000, and 5000 pounds originally established pursuant to CWA section 311 (see 40 CFR Part 117). The Agency adopted the CWA five-level system primarily because (1) it has been successfully used pursuant to the CWA, (2) the regulated community is already familiar with these five levels, and (3) it provides a relatively high degree of discrimination among the potential hazards posed by different CERCLA hazardous substances. Many commenters voiced general support of the five-level system; however, as the next section discusses, some commenters criticized the use of one pound as the lowest RQ level.

2. One-Pound RQs

Several comments were received on the one-pound RQ level. A few commenters argued that a one-pound RQ is too small for reporting purposes. They reasoned that a one-pound release of a hazardous substance would have an inconsequential impact on public health and welfare and the environment and that federal agencies would not respond to such small releases.

The one-pound RO is consistent with prior regulation under the Clean Water Act (see 40 CFR Part 117). One pound was selected under the Clean Water Act as the lowest reporting level because one pound is typically the smallest container size used in commerce for transporting moderately or extremely hazardous substances 40 FR 59989, December 30, 1975. Moreover, the Agency interviewed a large crosssection of field response personnel, and all of those interviewed indicated that they want to be notified of most releases, even at the one-pound level. In the interviews, the field response personnel recognized that the government may not institute removal or remedial actions for many one-pound releases, but they emphasized that notification was a prerequisite for. determining (1) the need for a response under the circumstances, (2) the adequacy of any cleanup efforts, and (3) the degree to which post-release monitoring may be required. Furthermore, many releases tend to be escalating events, and early notification helps ensure an effective response.

Six commenters criticized the one-pound RQ level for posing an unreasonable burden on the regulated community. One commenter indicated that the adoption of one-pound RQs will require many companies to do extensive testing of raw materials in order to assure compliance with this regulation. CERCLA does not require any testing, and EPA does not intend to require any further testing beyond that which is already required by other statutes and their implementing regulations.

C. Methodology Used To Adjust Reportable Quantities

1. The Methodology Chosen

The selected strategy for adjusting RQs begins with an evaluation of the intrinsic physical, chemical, and toxicological properties of each designated hazardous substance. The intrinsic properties examined—called "primary criteria"—are aquatic toxicity, mammalian toxicity (oral, dermal, and inhalation), ignitability, reactivity, and chronic toxicity. (For the purposes of this rule, chronic toxicity—referred to as

"other toxic effects" in the May 25, 1983 NPRM—is defined as toxicity resulting from repeated or continuous exposure to either a single release or multiple releases of a hazardous substance.) In addition, substances that were identified as potential carcinogens have been evaluated for their relative activity as potential carcinogens; the RQs for these substances will be proposed in a separate rulemaking, and the methodology for adjusting RQs on the basis of potential carcinogenicity will at that time be presented for public comment.

The Agency ranks each intrinsic property on a five-tier scale, associating a specified range of values on each scale with a particular RQ value. Thus, each substance receives several tentative RQ values based on its particular properties. The lowest of all of the tentative RQs becomes the "primary criteria RQ" for that substance. (See Section V.D.1. below for further detail.)

After the primary criteria RQs are assigned, substances are further evaluated for their susceptibility to certain extrinsic degradation processes. These extrinsic processes (referred to as "secondary criteria" in the May 25, 1983 NPRM) are biodegradation, hydrolysis, and photolysis, or "BHP." If the analysis indicates that a substance degrades relatively rapidly to a less harmful compound through one or more of these processes when it is released into the environment, the primary criteria RO is raised one level. (See section V.D.2. below for further detail.) The single RQ assigned to each substance on the basis of the primary criteria and BHP becomes the adjusted RQ for that substance.

2. Multiple RQs and Media-Specific RQs

Many commenters objected to the Agency's proposal to establish a single RQ for each hazardous substance. It was suggested that either (1) the Agency should develop several RQs for each hazardous substance, for example, one RQ for each of the various environmental media (air, water, soil) into which a release might occur, or (2) the Agency should base the adjusted RQ for each substance on the most likely medium of release rather than on the most sensitive environmental trigger (as is currently done).

Several of the objecting commenters believed that the RQs would be arbitrary if they did not reflect the varying degrees of risk presented by releases into different environmental media. For similar reasons, they argued that the RQs should vary depending on the form of the substance released (i.e., whether it is a solid, a liquid, or a gas) and its ability to dissipate into the environment. The objecting commenters believed that if the RQs were to reflect more accurately the hazards of given releases, the overall reporting burden would be reduced, because reports would not have to be made in situations where the government would be unlikely to respond.

As has been stated, the RQs are not intended to represent judgments by the Agency as to the specific degree of hazard associated with certain releases. The actual hazard will vary with the circumstances of the particular release, and many factors other than the size of the release will influence the government's response. The single RO approach was adopted to provide a relatively simple reporting system that does not unduly burden either EPA or the regulated community. Since releases into more than one medium often occur. the single RQ approach will prevent confusion. Section 102(a) of CERCLA expressly authorizes the Administrator to set a single quantity for each hazardous substance, and the legislative history emphasizes the virtues of simplicity and administrative convenience (see Sen. Rep. 848, 96th Cong., 2d Sess. 29 (1980)). Moreover, the Agency simply does not have the resources to obtain the vast quantity of technical data required to develop RQs that, on the one hand, are tailored to fit every release situation, and that, on the other hand, are consistent, equitable, and adequately protective of public health and welfare and the environment.

EPA will be able to refine the single-RQ approach over time as more information becomes available, without having to expend substantial resources to develop a massive technical data base and undertake other burdensome rulemaking support. Radionuclides, because of their unique characteristics, are the one category of substances for which the Agency is considering deviation from the single RQ approach. As noted in section III.C. of this preamble, radionuclide RQs will be addressed in a separate rulemaking.

A number of commenters expressed the opinion that the RQ adjustment criteria should take particular release circumstances into consideration. The suggested circumstances included release into a sewer system, release near a public drinking water supply, release near a residential area, and air

³ If available evidence shows that a substance hydrolyzes into a reaction product that is more hazardous than the original substance, the primary criteria are applied to the reaction product rather than to the original substance to determine the primary criteria RQ values for the original substance.

emissions from elevated sources (tall stacks). One commenter even stated that "determinations of actual harm' should be made for all substances with one- and ten-pound RQs by examining release potential, release history, the degree of hazard or risk of particular releases in various environmental media, and the likelihood that such releases would require federal action. The Agency position is that particular circumstances should not affect the RQ. level; instead, they may influence the government's decisions concerning whether and how it should respond to a particular release.

Many commenters focused on the appropriateness of a single RQ governing emissions into the air as well as releases into other media. They

argued as follows:

- Because the government cannot respond to most air emissions by containing or cleaning up the emissions, and because other government responses (e.g., evacuation of the nearby populace) are required only infrequently, requiring routine reporting of air emissions under a single-RQ approach would be wasteful and burdensome.
- The impacts of emissions into ambient air are substantially less than releases of similar size to water or soil, and the photolysis and degradation of many air emissions tend to be relatively rapid.
- Relatively few substances would be eligible for separate air release RQs, and EPA would not have to devote a substantial amount of effort and resources to make the appropriate adjustments.

The Agency believes that an exception to the single-RQ approach for air releases could not be restricted to air releases alone under the above reasoning. Several other types of releases exhibit certain of the characteristics of air releases, such as releases into large bodies of rapidly moving water. If the circumstances of particular releases were taken into account in setting RQs, the entire process would place an intolerable burden on Agency resources. The process would also become potentially inconsistent, inequitable, and subject to

delay. Moreover, the resulting complexity in RQs would be likely to engender both confusion and further charges of arbitrariness.

One commenter believed that, for the most part, releases that would be affected by a separate air release RQ would be those which are "continuous" and released from facilities subject to Clean Air Act regulations. If an air release falls within the exemptions provided by CERCLA for "continuous" or "federally permitted" releases, of course, no notification is necessary (except as required for continuous releases); if many air releases are exempt, a separate air release RQ would provide very few benefits.

3. Alternative Methodologies Considered

In the May 25, 1983 NPRM, EPA described and solicited comments on three alternative methodologies for adjusting RQs: Hazard Index, Scenarios, and Fate and Effects. Most commenters agreed with the Agency that these methodologies would be impractical to implement and would introduce unnecessary complexities into the RQ adjustment process, although several commenters encouraged further research into the Hazard Index approach. No new data to facilitate a more complete evaluation of these methodologies have been submitted. Because these methodologies are complex and require much data that are unavailable at this time, EPA is not currently pursuing these methodologies further for RQ adjustment purposes.

D. Criteria Used To Adjust Reportable Ouantities

1. Primary Criteria

a. Aquatic Toxicity. In adjusting RQs, EPA used the categories of aquatic toxicity that were established pursuant to section 311 of the CWA. As Exhibit 1 shows, each category is linked to one of the five RQ levels. The RQ value based on aquatic toxicity is identical to the RQ promulgated under the CWA section 311 except where the use of updated aquatic toxicity data has resulted in a different RQ (see section V.F.2. below).

EXHIBIT 1.—CATEGORIES FOR REPORTABLE
QUANTITY ASSIGNMENTS PURSUANT TO CWA
SECTION 311

RQ (pounds)	Aquatic toxicity	Cate- gory
10 100 1000	LC_{o}^{*} < 0.1 mg/liter	B

[&]quot;LC₅₀" refers to that concentration of material which is lethal to one-half of the test population of aquatic animals upon continuous exposure for 96 hours. (See 40 CFR 116.14).

Source: 43 FR 10492, March 13, 1978.

One commenter questioned the rationale for assigning one-pound RQs to substances in the highest aquatic toxicity category. The commenter indicated that an RQ of 10 pounds, or even 100 pounds, could be assigned just as easily. The five-level reportable quantity scale for aquatic toxicity was taken directly from section 311 of the Clean Water Act. The CWA section 311 reporting categories are being retained for CERCLA reporting purposes in order to ensure consistency between the two closely related acts. The aquatic toxicity RQ scale has been used successfully in implementing the Clean Water Act, and the regulated community is familiar with it. Moreover, as noted above in the section on one-pound RQs, many releases tend to be escalating events requiring prompt attention.

b. Mammalian Toxicity. EPA separately evaluated oral, dermal, and inhalation toxicity for the mammalian toxicity criterion. A five-level scale was devised for each type of toxicity. These scales are shown in Exhibit 2. The RQ chosen for mammalian toxicity represents the lowest of the values derived from the three scales. These scales were discussed in detail in the NPRM (48 FR 23562-23563).

One commenter believed that the Agency's mammalian toxicity scales assign RQs which are too high for some poisonous substances. The commenter therefore proposed new scales based on mammalian toxicity that would assign many more one-pound RQs than the Agency's scales. The Agency believes that the scales suggested by the commenter are overly broad and could lead to unnecessary reporting.

EXHIBIT 2.—CATEGORIES FOR REPORTABLE QUANTITY ADJUSTMENTS BASED ON MAMMALIAN TOXICITY 4

RQ (pounds)	Mammalian toxicity (oral)	Mammalian toxicity (dermal)	Mammalian toxicity (inhalation)
10	0.1 mg/kg <ld<sub>50 < 1 mg/kg.</ld<sub>	LD ₅₀ < 0.04 mg/kg	0.4 ppm <lc<sub>50 <4 ppm.</lc<sub>
100	1 mg/kg <ld<sub>50 < 10 mg/kg.</ld<sub>		4 ppm <lc<sub>50 <40 ppm.</lc<sub>
1000	10 mg/kg <ld<sub>50 < 100 mg/kg</ld<sub>		40 ppm <lc<sub>50 <400 ppm.</lc<sub>

^{*} For a detailed explanation of the derivation of these categories, see Technical Background Document to Support Rulemaking Pursuant to CERCLA Section 102.
b "LD₅₀" refers to that dose of a substance expected to cause the death of 50 percent of a defined experimental mammalian population.

[&]quot;Co" refers to that concentration of a substance in the air that is expected to cause the death of 50 percent of a defined experimental mammalian population.

c. Ignitability and Reactivity. The Agency used a five-level scale to assign RQs based on ignitability. The NPRM discussed this scale in detail (48 FR 23563). Exhibit 3 shows the scale used. The Agency did not assign one-pound RQs based on ignitability because small releases of a flammable substance would generally be consumed so quickly that any federal government response action would be infeasible.

EXHIBIT 3.—CATEGORIES FOR REPORTABLE QUANTITY ADJUSTMENTS BASED IGNITABILITY .

RQ (pounds)	Ignitability (fire)							
1 10 100 1000 5000	No 1-pound RQs on the basis of ignitability Pyrophoric or self-ignitable. $FP^{s}_{cc} < 100^{\circ}F, BP^{\circ} < 100^{\circ}F.$ $FP_{cc} < 100^{\circ}F, BP > 100^{\circ}F.$ $FP_{cc} 100^{\circ}F - 140^{\circ}F.$							

The Agency also used five-level scales for assigning ROs based on two types of reactivity: reactivity with water and self-reaction. For reactivity, as for ignitability, no one-pound RQs were assigned. The NPRM discussed the reactivity scales and their development. Exhibit 4 shows the scales used.

One commenter requested that the minimum RQ level for the ignitability and reactivity RQ scales be set at 100 pounds instead of 10 pounds. The Agency has decided to retain the 10pound minimum RQ level. As a result of interviews with federal government field response personnel, the Agency decided to remove the one-pound RQ level from the ignitability and reactivity RQ scales. Government response personnel indicated that releases of less than 10 pounds of ignitable and reactive substances normally would be adequately handled by appropriate local or state response personnel, and they concurred with the Agency's proposal to raise to 10 pounds the minimum reporting level for the ignitability and reactivity RQ scales. Government response personnel, however, objected to raising the minimum reporting level any further. They believed that reporting levels should be kept low to ensure timely reporting of releases and timely government response, if necessary.

EXHIBIT 4-CATEGORIES FOR REPORTABLE QUANTITY ADJUSTMENTS BASED ON REACTIVITY *

RQ	Reac	tivity b
(pounds)	With water	Self-reaction
1 ,	No 1-pound RQs on the basis of reactivity.	No 1-pound RQs on the basis of reactivity
	Inflames (e.g., Na, CaC₂).	Extreme self-reaction; may cause explosion or detonation.
100	Extreme reaction (e.g., SO ₃).	High; may polymerize; requires stabilizer.
1000	High reaction (e.g., oleum).	Moderate; contamination may cause polymerization; no inhibitor required.
5000	Moderate reaction (e.g., NH ₃).	Slight; may polymerize with low heat release.

^{*}For a detailed explanation of the derivation of these categories, see Technical Background Document to Support Rulemaking Pursuant to CERCLA section 102.
*Based on heat release.

d. Chronic Toxicity. The Agency used data on chronic toxicity (referred to as "other toxic effects" in the May 25, 1983 NPRM) to adjust the statutory RQs for some hazardous substances. For other hazardous substances, data on chronic toxicity were still being evaluated at the time of the May 25, 1983 NPRM. RQs were not adjusted for those substances undergoing evaluation; thus, the statutory RQ applies. In addition, there are a few substances for which an RQ was proposed in the NPRM but for which EPA subsequently determined that further evaluation was necessary. The statutory RQ applies for these substances until a final RQ is promulgated (see section V.F.2. below).

When analyzed for chronic toxicity, substances are assigned scores based on both the minimum effective dose (MED) levels for repeated exposures and the severity of the effects caused by repeated or continuous exposure. The scores are then used to assign RQs. The NPRM described the methodology used (48 FR 23564); Exhibit 5 shows the RQ levels based on chronic toxicity.

EXHIBIT 5.-CATEGORIES FOR REPORTABLE QUANTITY ADJUSTMENTS BASED ON CHRON-IC TOXICITY *

RQ (pounds)	Com- posite score
1	81-100
10	
100	21-40
1000	6-20
5000	1-5

[•] For a detailed explanation of the derivation of these categories, see Technical Background Document to Support Rulemaking Pursuant to CERCLA Section 102.

A number of commenters suggested that chronic toxicity should not be used to determine RQs or should be used only with additional restrictions. These commenters believed that chronic toxicity, which is a function of prolonged exposure, should not be considered because the purpose of the RQ program is to monitor episodic releases. The Agency decided to use chronic toxicity as a criterion in setting RQs because episodic releases which are not rapidly and completely cleaned up may result in repeated or continuous exposure to a toxic substance. Moreover, CERCLA reporting requirements cover both episodic and continuous releases. Continuous releases may also lead to repeated or continuous exposure to toxic substances.

e. Potential Carcinogenicity. Today's rule does not use any measure of potential carcinogenicity to adjust RQs. EPA is in the process of developing adjusted RQs for substances which have been identified as potential carcinogens. The statutory RQs for these substances apply while they are being considered for RQ adjustment. Table 302.4 notes those substances which are being evaluated for their relative activity as potential carcinogens (but which may or may not be potential carcinogens).

2. Other Criteria Used to Adjust RQs (BHP)

a. Use of BHP Criteria. Twenty commenters supported the use of the natural degradation processes of biodegradation, hydrolysis, and photolysis ("BHP") as additional criteria for adjusting RQs. The BHP criteria are used, where appropriate, to raise RQ values one level from that suggested by the primary criteria analysis. Four commenters opposed the use of BHP to adjust RQs.

The supporting commenters agreed that the above degradation processes tend to reduce the relative potential for harm to public health and welfare and the environment of certain harzardous substance releases. It was seen that taking the environmental fate characteristics of particular substances into account in setting RQ levels was an appropriate method to reduce the overall reporting burden while still adequately protecting public health and welfare and the environment. However, one commenter emphasized that the BHP criteria are a useful RQ adjustment tool only where the associated analysis is not overly complex, expensive, or time-consuming.

Several commenters requested clarification of the methodology used in

^{*}For a drit-ited explanation of the derivation of these categories, see Technical Background Document to Support Rulemaking Pursuant to CERCLA Section 102.

b "FPcc" refers to the flash point, the temperature at which a substance forms an ignitable mixture with the air at the surface of the substance, measured using the closed cup

est.

c "BP" refers to the boiling point, the temperature at which a liquid boils.

applying BHP. The Technical Background Document supporting this rulemaking sets forth in detail the relatively simple, yet scientifically conservative methodology used to apply these criteria. First, several elimination criteria are used to limit the number of substances eligible for the one-level increase based on BHP. The elimination criteria include the following: tendency to bioaccumulate, environmental persistence, the presence of unusual hazards (e.g., high reactivity), the existence of hazardous degradation or transformation products, or a primary criteria RQ already at the maximum assignable level of 5000 pounds. The remaining substances are evaluated for their susceptibility to biodegradation, hydrolysis, and photolysis. As discussed below, the Agency uses ranges of degradation rates sufficient to ensure that the substances selected for the onelevel increase in RQ (27 in today's final rule) are in fact relatively degradable.

Two commenters believed that the Agency's evaluation pursuant to the BHP criteria should lead to a downward adjustment if the risk posed by the release of a hazardous substance is increased as a result of biodegradation, hydrolysis, or photolysis (i.e., if the natural degradation processes produce materials in the environment that are more hazardous than the original substance released). The Agency agrees that consideration must be given to the toxicity of the degradation products. Where reaction products more hazardous than the original substance are readily known and identified, the Agency has based the primary criteria RQ of the original substance on the characteristics of the more hazardous reaction products, effectively resulting in a "downward adjustment."

Application of the primary criteria to the reaction products rather than to the original substances occurred in ten cases for the substances assigned final adjusted RQs in this rule. For example, substances known to generate hydrogen sulfide or phosphine upon hydrolysis have been assigned primary criteria RQs on the basis of these reaction products.

The few commenters opposing the use of BHP felt that biodegradation, hydrolysis, and photolysis should be considered by the On-Scene Coordinator in determining the government's response after a release has been reported, but that EPA should not use such processes to alter the initial reporting level suggested by the primary criteria. For the reasons given below, the Agency disagrees.

First, the commenters asserted that biodegradation, hydrolysis, and photolysis should not be applied in the

setting of RQs because these processes may not affect the immediate hazard posed by a given release and instead may only reduce the potential long-term dangers of the release. However, EPA has used degradation measures that address both short- and long-term potential hazards. The RQ of a substance is not raised unless (1) the reported biological oxygen demand of the substance over a five-day period at 20 degrees Celsius is at least fifty percent of the theoretical oxygen demand (the stoichiometric quantity of oxygen needed to oxidize a substance completely to carbon dioxide and water), or (2) when subjected to hydrolysis, photolysis, or either process in conjunction with biodegradation, the estimated half-life of the substance is equal to or less than five days.

The primary criteria RQs of four substances (allyl chloride, butylamine, diazinon, and ethyl acrylate) were adjusted upwards in the May 25, 1983 NPRM on the basis of degradation data involving periods greater than five days, because data for shorter periods were unavailable. The Agency has since decided to adjust RQs according to the criteria stated above (i.e., evidence of degradation within five days), to ensure that all substances selected for the onelevel increase will tend to degrade rapidly once they are released. Therefore, allyl chloride, butylamine, diazinon, and ethyl acrylate are assigned their primary criteria RQs in today's final rule.

The second major argument raised by the commenters opposed to the use of BHP was that the methods for measuring the occurrence and rate of biodegradation, hydrolysis, and photolysis do not take into account the entire range of environmental conditions that could potentially affect each process. The Agency acknowledges this limitation in its analysis. RQs cannot be designed to account for every environmental condition of each release of a hazardous substance. Instead, each. RQ level represents the Agency's best judgment concerning the threshold at which the NRC should be notified.

Although environmental conditions are not considered in the RQ adjustment process, EPA has taken into account certain physical characteristics of substances in adjusting RQs on the basis of biodegradability. The test for biodegradability is performed using a closed container, which may provide misleading data for highly volatile substances that are unlikely to remain in microbe-bearing soil or water. The Agency has therefore elected not to apply the biodegradation criterion to any highly volatile substance (i.e., with

a boiling point less than 100 degrees Fahrenheit) unless that substance is also highly water soluble. Highly water soluble substances will tend to be retained in water or in soil (by soil moisture). The primary criteria RQ of acetaldehyde was raised one level under these circumstances; even though the boiling point of acetaldehyde is less than 100 degrees Fahrenheit, the substance is also highly water soluble.

b. Other Criteria Considered and Rejected. In the NPRM preamble, EPA noted that it had considered using volatilization (the process by which a substance vaporizes into the air) as an additional criterion for adjusting ROs. but had rejected it because the hazard posed by a release of a hazardous substance does not necessarily decrease when the substance moves from soil or water into the air. One commenter disagreed with the Agency's decision not to use volatilization, arguing that where a compound is particularly volatile, no response action may be feasible. EPA maintains its earlier position that the movement of a substance between environmental media (from the soil or water into the air) does not necessarily affect the potential hazard. The feasibility of a response is a decision for the On-Scene Coordinator.

c. Broadening the Scope of the BHP Criteria. The NPRM noted, without discussion, that the criteria of biodegradation, hydrolysis, and photolysis were not used to raise RQs based on chronic toxicity, and it did not mention the application of BHP to substances being evaluated for potential carcinogenicity. Several commenters expressed the opinion that BHP should be applied to hazardous substances evaluated for chronic toxicity and/or potential carcinogenicity. They noted that the processes of biodegradation, hydrolysis, and photolysis may, in certain cases, reduce the potential hazard of such substances. EPA agrees that BHP should be applied to those hazardous substances evaluated for chronic toxicity, and the Agency is considering whether to apply BHP to substances evaluated for potential carcinogenicity.

In fact, the Agency has already evaluated BHP with respect to those substances that were analyzed for chronic toxicity. Two substances evaluted for chronic toxicity have had their primary criteria RQs increased one level on the basis of biodegradability: acetonitrile (1000 to 5000 pounds) and methyl ethyl ketone (1000 to 5000 pounds).

A number of commenters argued that RQs should be adjusted more than one RQ level on the basis of the BHP criteria to reflect the speed and completeness with which a substance degrades. In a related suggestion, several commenters requested that EPA develop formal ranking scales for these criteria.

The lack of extensive data and the uncertainty of much of the existing data concerning the environmental fate of various hazardous substances prevent adjustments of more than one level to reflect the speed and completeness with which a substance degrades. The Agency believes that an upward adjustment of one level adequately lessens the reporting burden on the regulated community regarding releases of the 27 substances involved and satisfactorily protects public health and welfare and the environment.

Similar data gaps hinder development of formal ranking scales for the BHP criteria. Moreover, even if adequate data were available, the BHP criteria could not be easily applied through a more formal multi-tier ranking system. for many of the same reasons a hazard index is currently impractical. For example, there is no objective way to determine the proper numerical weights for the different primary and BHP criteria that would be combined in a more formal ranking system. Therefore, the Agency has determined that more formal ranking scales for the application of BHP are not practical at this time. Further refinement of the use of BHP may be undertaken in connection with a future rulemaking.

For a more detailed discussion of the BHP criteria and the problems of combining different criteria ranking, see the discussion of hazard indices in the May 25, 1983 NPRM at 48 FR 23568-23569, and the Technical Background Document to Support Rulemaking Pursuant to CERCLA section 102, available for inspection at Room S-325, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, D.C.

d. Additional Data Suggested. Some commenters suggested specific data sources for analysis of BHP. EPA used one of these sources in making the adjustments proposed in the May 25. 1983 NPRM. On the basis of data contained in the other available sources. the RQs of acetonitrile and furfural have each been raised one level to 5000 pounds.

3. Additional Criteria Considered but Not Currently Used To Adjust RQs

a. Release History and Release Potential. Several comments were received on the use of release history and release potential as criteria for adjusting RQs. EPA agrees with those commenters who stated that the manner in which releases have been handled in the past under different circumstances is not directly related to whether a particular release in the future will pose a threat to public health or welfare or the environment. The potential hazards of each release must be considered on a case-by-case basis. For this reason, and because of the data problems mentioned in the NPRM, the Agency has decided not to adjust RQs on the basis of release history and release potential at this time.

b. Corrosivity. Two commenters supported the use of corrosivity as a criterion for adjusting RQs. A major difficulty in applying corrosivity as a criterion is developing a scale relating corrosivity to RQs that is useful for all CERCLA hazardous substances. None of the comments included a scale that the Agency considered adequate, and EPA has not identified a corrosivity scale that would be generally practicable. Therefore, corrosivity will not be used at this time as a criterion for adjusting RQs.

E. Future RQ Adjustments

1. Interim RQs

As noted below in section V.G. adjusted RQs for 358 of the 698 CERCLA hazardous substances do not appear in today's rule. One commenter urged EPA to publish proposed RQs for these substances as quickly as possible. Today's Federal Register contains an NPRM proposing RQs for 105 of the 358 substances not receiving an adjusted RQ in today's rule. EPA will propose RQ adjustments for the remaining substances as soon as sound technical evaluations for them are complete.

Another commenter indicated that potential delays in performing such evaluations could result in an unfair reporting burden for many substances that will temporarily retain their present RQs. The commenter therefore recommended that EPA propose interim RQ adjustments for such substances based on existing information and scientific judgments.

EPA disagrees. Proposing new temporary RQs for hazardous substances would be time-consuming in itself, and, because the temporary RQs would be based on incomplete analysis, they would be unfair to the regulated community and the general public. Interim levels would still need to be changed when RQ evaluations are completed. EPA will move expeditiously to complete its evaluations of the

remaining CERCLA substances, but will not establish a set of interim RQs.

2. New Data

One commenter requested that provisions be specified for allowing RQ changes when new information relating to the primary criteria or BHP becomes available. This commenter felt that EPA should acknowledge the role of interested parties in effecting appropriate revisions to the final RQs and should clarify procedures for the submission of new data.

EPA welcomes the submission of new data concerning the primary criteria and BHP at any time. ROs are based on the best data available at the time of promulgation, but they are subject to change on the basis of new information. The Agency will periodically review submitted data to ensure that RQs are not based on superseded information.

F. Application of the Methodology and Criteria

1. Introduction

Many commenters voiced general support for EPA's choice of methodology and the results of the methodology. These commenters stated that the proposed RQ adjustments would increase the efficiency of the Superfund program, reduce burdens on the regulated community, and allow EPA to concentrate its resources on the releases which pose the potentially greatest threat to public health or welfare or the environment.

The remainder of this section responds briefly to comments received by the Agency concerning the RQs of various specific substances and discusses in greater detail the comments received concerning PCBs and unlisted hazardous wastes.

2. Comments on RQs of Specific Substances

The Agency received comments from over 100 commenters concerning the RQs of 90 individual substances and 12 groups of waste streams. The majority of these comments suggested raising the RQs for specific substances.

One commenter recommended several RQ changes on the basis of aquatic toxicity data recently compiled by the U.S. Department of the Interior. The Agency has reevaluated the RQs of several hazardous substances in light of these new data, and four of the substances singled out by the commenter have received new adjusted RQs. In addition, the new data were used to alter the proposed adjusted RQs of 12 other substances. Exhibit 6 lists the 16 substances which received new

adjusted RQs on the basis of the new aquatic toxicity data. Statements by the same commenter contributed to a reexamination of the mammalian toxicity data for phosgene and the lowering of the phosgene RQ from 1000 to 10 pounds.

EXHIBIT 6.—SUBSTANCES WHICH RECEIVED FINAL ADJUSTED RQS DIFFERENT FROM PROPOSED ADJUSTED RQS ON THE BASIS OF NEW AQUATIC TOXICITY DATA

Substance	Proposed RQ	Final RQ
	AG.	nq
A4 P 4	ا ۵۰	
Aldicarb	10	
4-Bromophenyl phenyl ether		100
Butyl benzyl phthalate	5000	100
N-Butyl phthalate	100	10
Dichlobenil		100
4.6-Dinitro-o-cresol and salts	100	10
Dinitrophenol (and 2.5- and 2.6-iso-		
mers)	100	10
2,4-Dinitropheriol	. 100	10
Diethyl phthalate	100	1000
Kelthane	5000	10
Methomyl	1000	100
Pyrethrins		1
2,4,5-T		1000
2.4.5-T Amines		5000
2,4,5-T Esters		1000
2,4,5-T Salts	100	1000
. ,	1	l

Some commenters suggested RQ changes for particular substances on the basis of volatility or particular incidents. Similarly, one commenter proposed new RQs for several waste streams based on the public impact of past releases of these wastes. However, as discussed in previous sections, neither volatility nor release history are currently being used to adjust RQs. The RQs of these substances and waste streams will therefore not be changed.

Commenters suggested raising the ROs of four substances on the basis of biodegradability. Two of these substances-crotonaldehyde and pentachlorophenol-have already been examined for biodegradability and been found not to meet the criteria for an upward RQ adjustment. EPA has reexamined the third substance, ammonia, on the basis of both chronic toxicity and BHP (although ammonia is volatile, it is also highly water soluble) and has proposed for ammonia an adjusted RQ of 100 pounds in the NPRM published in today's Federal Register. EPA has adjusted the RQ of the fourth substance, methyl ethyl ketone, from 1000 pounds to 5000 pounds on the basis of biodegradability.

Several commenters suggested that the RQs of metals might be based on the metal compound RQs (for soluble salts) that were assigned under CWA section 311. However, solid metal powders do not necessarily have the same effects as their soluble salts, and, therefore, the same RQs would not necessarily apply.

Many commenters argued that the RQ of ammonia should be raised from its current level of 100 pounds under the CWA; they cited the volatility of ammonia, the fact that most ammonia releases occur into air, the fact that the aquatic toxicity of the ammonium ion is much lower than that of ammonia itself, and the biodegradability of ammonia. It was also suggested that the 100-pound RQ would create a burdensome reporting requirement. Ammonia has undergone reevaluation since the May 25, 1983 NPRM; based on this reevaluation, the NPRM in today's Federal Register proposes to retain the 100-pound RQ for ammonia under CERCLA. The 100-pound RQ established under the CWA applies until a final adjusted RQ is promulgated.

3. PCBs

In the May 25, 1983 NPRM, the Agency proposed to lower the RQ for PCBs to one pound from the original 10-pound level set under section 311 of the Clean Water Act. The lower RQ was based on more recent aquatic toxicity data. The Agency acknowledged that because of the ubiquitous use of PCBs, it was concerned about the increased notification burden that might result from this proposed reduction of the PCB RQ. Comments were requested on these issues.

All of the comments received on this issue objected to the Agency's proposal to reduce the PCB RO to one pound. The major concern of the commenters was that the one-pound RQ would appreciably increase the number of reportable releases and the burden on the regulated community while negligibly improving the protection of public health or welfare or the environment. Most commenters argued that restrictions on the location of equipment containing PCBs, current PCB management regulations under TSCA, and existing industry good housekeeping practices with regard to PCBs make exposure to PCBs unlikely.

Several commenters also expressed concern that significant over-reporting may dramatically increase the government's administrative costs for the notification program. Other commenters suggested alternative methods for estimating the number of PCB releases of different quantities for the purpose of calculating the economic effects of changing the PCB RQ.

Several commenters questioned the validity of the aquatic toxicity data used by the Agency and the manner in which it was employed to set the proposed RQ. Also, two commenters cited data indicating that PCBs do not pose any serious threats to human health, even

though the Agency had explained that the proposed PCB RQ was based on aquatic toxicity.

After considering the comments received on the PCB RQ, the Agency has decided to defer any promulgation of a final PCB RQ until a future rulemaking. The Agency is currently evaluating PCBs to determine whether the RQ should be based on the primary criterion of potential carcinogenicity. Until a final RQ is promulgated for PCBs, the existing RQ of 10 pounds (established under the CWA) will remain in effect.

4. Unlisted RCRA Wastes (ICRE Wastes)

CERCLA section 101(14)(c) includes in the definition of hazardous substances "any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act. . . ." Therefore, solid wastes, as defined by RCRA, which exhibit one or more of the characteristics of ignitability, corrosivity, reactivity, or extraction procedure toxicity (ICRE) are considered CERCLA hazardous substances, even though they are not specifically listed under RCRA. The RQs of ICRE wastes are listed in Table 302.4 under "Unlisted Hazardous Wastes." These RQs apply only to substances that are wastes prior to being released (see section IV.D.1. above). The RQ for ignitable, corrosive, or reactive unlisted wastes is 100 pounds, and unlisted hazardous wastes that exhibit extraction procedure (EP) toxicity have the reportable quantities listed in Table 302.4.

Some commenters suggested changing the RO established for ignitable, corrosive, or reactive wastes. The comments that suggested raising the RQ for ICR wastes were based mainly on the assumption that a government response would seldom be required for releases of these wastes smaller than 1000 pounds. However, each of these suggestions assumes some specific scenario and ignores the fact that an RQ only reflects the Agency's judgment that the federal government should be notified of releases to which a response might be necessary. Especially when releases are of unknown mixtures, conservatism is a sensible approach; therefore, the RQ is designed to cover all hazardous substances potentially present. With this in mind, the RQ for ICR wastes will remain as proposed at 100 pounds.

Two commenters suggested that the releaser be given the opportunity to report releases of reactive or ignitable wastes based on the primary criteria RQ

scales of Exhibits 3 and 4 in the NPRM (48 FR 23563). However, simply testing for the reactivity or ignitability of the waste does not further identify the composition of the waste; therefore, the waste is still unlisted. The primary criteria are designed to apply only to specific substances. Moreover, the Agency has not determined that listed and unlisted wastes pose similar potential hazards.

If an unlisted ICRE waste is analyzed and the concentrations of all of its hazardous components are identified, the waste is no longer an unlisted waste, but one characterized by its components. The specific substances present will then determine the applicable RQ in accordance with the Clean Water Act mixture rule (see section IV.D.3.b. above). For example, if a waste is known to be corrosive because of its sulfuric acid content, and no other CERCLA hazardous substances or other ICRE characteristics are present, the RQ of the waste is reached when 1000 pounds of sulfuric acid is released. If the aforementioned waste is a 25 percent solution of sulfuric acid in water, the RQ of the waste is not reached until 4000 pounds of the waste is released.

Several commenters suggested that the RQ for an EP toxic waste should apply to the EP toxic constituents of the waste rather than to the waste itself. If the composition of the waste stream is completely known, the waste is no longer an unlisted waste, and the mixture rule will apply. If the hazardous constituents of the waste and their concentrations are not completely known, however, it is impossible to apply the mixture rule as these commenters suggested. Unlisted wastes that exhibit EP toxicity have the reportable quantities listed in Table 302.4 for the contaminant on which the characteristic of EP toxicity is based; the RQ given applies to the waste itself, not merely to the toxic constituent. A sentence has been added to § 302.5(b) to clarify this point.

G. Summary of RQ Changes From the May 25, 1983 NPRM

The May 25, 1983 NPRM proposed raising the RQs for 177 CERCLA substances (including 15 waste streams) and lowering the RQs for 28 substances, leaving the RQs of 182 substances (including 11 waste streams) at their previous levels. On the basis of new aquatic toxicity data located by a commenter, the proposed adjusted RQs of 16 substances have been changed. Exhibit 6 lists these 16 substances. Similarly, new data on BHP has led to a one-level increase in the adjusted RQ of

furfural, and a reevaluation of mammalian toxicity data has led to a decrease in the phosgene RQ from 1000 to 10 pounds. Applying BHP to substances exhibiting chronic toxicity has raised the adjusted RQs of two other substances. The decision not to apply BHP to substances for which fiveday degradation rates are insufficient to justify a one-level increase in RQ has resulted in a lower RQ for four substances. The use of data overlooked at the time of the NPRM has affected the adjusted RQs of four additional substances.

The NPRM proposed adjusted RQs for 47 substances (including 8 waste streams) that were subsequently selected for chronic toxicity and/or potential carcinogenicity assessment; these 47 substances will therefore remain at their statutory RO levels pending future RQ adjustments. Of these 47 substances, however, 23 (including 6 waste streams) already had RQs of one pound on the basis of one or more of the other primary criteria. Further evaluation of chronic toxicity or potential carcinogenicity is unlikely to change these one-pound RQs, because there is no RQ level less than one pound and the analysis of the other primary criteria indicates that a one-pound RQ is appropriate (although new data on the primary criteria or on BHP may suggest otherwise).

Table 302.4 in the May 25, 1983 NPRM incorrectly described eighteen substances as having one-pound statutory RQs under CERCLA; however, these substances had been assigned RQs under the Clean Water Act (40 CFR Parts 116 and 117.3). Exhibit 7 lists the eighteen substances and their correct statutory and (where appropriate) final RQs.

In sum, final adjusted RQs now appear for 319 of 608 specific substances and 21 of 90 waste streams. Statutory RQs appear for the remaining substances.

For further information concerning these RQ changes, see the Technical Background Document to Support Rulemaking Pursuant to CERCLA Section 102, available for inspection at Room S-325, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, D.C. 20460.

H. Retention of Statutory RQ for Methyl Isocyanate

The December 4, 1984 release of methyl isocyanate (MIC) in Bhopal, India caused major loss of human life. This event pointed out the extraordinarily serious nature of MIC's acute toxicity. At this point, EPA is withdrawing its proposal to amend the RQ for MIC and is requesting further data on its toxicity.

The one-pound statutory reporting requirement will continue to apply to releases of this hazardous substance until a rule adjusting its RQ is promulgated.

EXHIBIT 7.—SUBSTANCES WITH RQS ASSIGNED UNDER THE CLEAN WATER ACT THAT THE MAY 25, 1983 NPRM LISTED AS HAVING ONE-POUND STATUTORY RQS UNDER CERCIA

Substance	Correct CWA section 311 RQ	Final RQ
Aroclor 1016	10	* 10
Aroctor 1221		• 10
Arocior 1232	10	• 10
Aroclor 1242		* 10
Aroclor 1248	10	* 10
Aroclor 1254	10	* 10
Aroclor 1260	10	• 10
o-Dichlorobenzene	100	100
p-Dichlarobenzene		100
1,2-Dichloropropane	5000	1000
1,3-Dichloropropene	5000	100
2,4-Dinitrophenol	1000	10
2,4-Dinitrotoluene	1000	1000
2,6-Dinitrotoluene	1000	*1000
2-Nitrophenol	1000	100
4-Nitrophenol	1000	100
2,4,5-Trichlorophenof		* 10
2,4,6-Trichlorophenol		*10

^{*}These substances were selected for evaluation of chronic toxicity and/or potential carcinogenicity and adjusted RQs will be proposed for them in a future rulemaking.

I. Table 302.4

1. Introduction

Table 302.4 lists all of the CERCLA hazardous substances together with their adjusted and statutory RQs. The first part of the table lists the individual hazardous substances regulated under the statutes cited in CERCLA section 101(14). The generic groups of chemicals designated under CWA section 307(a), such as "SILVER AND COMPOUNDS." are printed in capital letters and have no RQ assigned to them. These generic groups of chemicals could potentially encompass hundreds of specific compounds with varying toxicities; it is therefore not appropriate to establish a single RQ for each generic group. Although CERCLA notification requirements apply only to specific compounds for which RQs are listed in Table 302.4, CERCLA liability may still attach to releases of specific compounds that are within one of the generic

^{&#}x27;Adjustments have been proposed for 105 of these substances in an NPRM that appears in today's Federal Register. These substances are noted by two number symbols (##) in the "Pounds (Kg)" column of Table 302.4.

listings but not specifically listed in Table 302.4.

The second part of the table contains the 90 hazardous waste streams designated under 40 CFR 261.31 and 261.32 (RCRA F and K lists). The Agency designated many of these waste streams as hazardous under RCRA because of the presence of specific hazardous constituents in the waste streams as set forth in Appendix VII of 40 CFR Part 261. The Agency is assigning RQs for these waste streams based on these hazardous constituents. The primarycriteria and BHP, discussed above, were applied to each hazardous constituent in order to derive an RQ value. If a waste stream in 40 CFR 261.31 and 261.32 has more than one hazardous constituent, the RQ assigned to the particular waste stream represents the lowest RQ associated with the hazardous constituents present in that waste stream.

2. Minor Changes

In addition to the changes in proposed RQs described above in Section G, the following minor changes in Table 302.4 have been made:

- (1) The listing for Chromium D007, one of the constituents of the characteristic of EP toxicity under the "Unlisted Hazardous Wastes," will now be "total chromium" (although it may be changed to hexavalent chromium at some time in the future under proposed amendments to RCRA). It was listed incorrectly as hexavalent chromium (VI) in Table 302.4 in the NPRM.
- (2) The RCRA waste numbers for the characteristics of ignitability (D001), corrosivity (D002), and reactivity (D003) are now included in Table 302.4. They were omitted from Table 302.4 in the NPRM. In addition, the waste identification numbers for the constituents of the characteristic of EP toxicity, and the waste identification numbers for wastes F001 through K106, which were also omitted in the NPRM, are now properly included in the column for RCRA Waste Numbers in Table 302.4.
- (3) In response to the suggestion of a commenter, the Table now notes that the RQ for asbestos is limited to friable forms of the substance; reporting of releases of other forms is not required, although other CERCLA liabilities may attach.

VI. Reportable Quantity Adjustments Under Section 311 of the Clean Water Act

In the May 25, 1983 NPRM, EPA requested comments on its proposal to make RQs adjusted under CERCLA the applicable RQs for purposes of reporting

discharges of hazardous substances pursuant to section 311 of the Clean Water Act. Making RQs the same for substances listed under both statutes would make the notification requirements for the substances involved consistent and less confusing for the regulated community.

Of nine comments received on the issue of adjusting CWA RQs, five were completely in favor of the Agency's proposal and agreed that it would alleviate much confusion. However, four comments indicated that such adjustment should proceed only for those substances for which CWA RQs would be raised. These commenters claimed that CWA RQs are based on aquatic toxicity, while CERCLA RQs must consider releases into other media. Thus, they reasoned, lowering CWA RQs based on criteria used to set CERCLA RQs would be unfair.

EPA does not feel that different RQs under the two statutes would serve any purpose. Even if the CWA RQs were not lowered, releases of CWA substances would still be reportable when released at CERCLA RQ levels because CERCLA's scope and jurisdiction fully encompass all hazardous substance discharges reportable under CWA. The primary purpose of equalizing RQs under CERCLA and the CWA is to make the task of reporting releases less confusing for the regulated community.

VII. Summary of Supporting Analyses

A. Classification and Regulatory Impact Analysis

Rulemaking protocol under Executive Order 12291 requires that proposed regulations be classified as "major" or "non-major" for purposes of review by the Office of Management and Budget. According to the E.O. 12291, major rules are regulations that are likely to result in:

- (1) An annual effect on the economy of \$100 million or more; or
- (2) A major increase in costs or prices for consumers, individual industries, federal, state, or local government agencies, or geographic regions; or
- (3) Significant adverse effects on competition, employment, investment, productivity, innovation, or the ability of United States-based enterprises to compete with foreign-based enterprises in domestic or export markets.

 The Regulatory Impact Analysis, available for inspection at Room S-325, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, D.C. 20460, shows that today's regulation is "non-major" because it results in a net cost savings of approximately \$17 million annually, of which about \$2.6

million annually will be saved by the regulated community (the remainder to be saved by the government).⁵

B. Regulatory Flexibility Analysis

The Regulatory Flexibility Act of 1980 requires that a Regulatory Flexibility Analysis be performed for all rules that are likely to have "significant impact on a substantial number of small entities." Chapter 7 of the Regulatory Impact Analysis estimates the potential impact of today's regulation on a model small chemical firm. The chapter first estimates an upper-bound total annual cost of compliance by a small firm at \$5,604 (in 1983 dollars) and then compares this figure to other measures of a small firm's economic status. Even with this extremely conservative estimate, the total cost per year of compliance is a negligible percentage of both the pre-tax annual cash flow and equity of the model small firm-a fraction of one percent for both measures. EPA therefore certifies that this regulation will not have a significant impact on a substantial number of small entities, and thus no Regulatory Flexibility Analysis is needed.

C. Information Impact Analysis

EPA anticipates that RQ adjustments will change the paperwork burden imposed on the regulated community for information collection associated with reporting releases. As estimated in the Regulatory Impact Analysis, today's regulation will reduce the paperwork burden of notification and recordkeeping on private parties by almost 50,000 hours.

The information collection requirements contained in this rule are covered by the U.S. Coast Guard submission for information collection by the National Response Center. The requirements have been approved by the Office of Management and Budget (OMB) under the provisions of the Paperwork Reduction Act of 1980, 44 U.S.C. 3501 et seq., and have been assigned OMB control number 2115–0137.

List of Subjects in 40 CFR Part 302

Air pollution control, Chemicals, Hazardous materials, Hazardous materials fransportation, Hazardous substances, Intergovernmental relations, Natural resources, Nuclear materials, Pesticides and pests, Radioactive materials, Reporting and recordkeeping

⁶ These figures do not include the costs or benefits associated with the continuous release exemption.

requirements, Superfund, Waste treatment and disposal, Water pollution

Dated: February 13, 1985.

Lee M. Thomas,

Administrator.

1. 40 CFR is amended by adding Part 302 as follows:

PART 302—DESIGNATION, REPORTABLE QUANTITIES, AND NOTIFICATION

302.1 Applicability.

Abbreviations. 302.2 302.3 Definitions.

Designation of hazardous substances. 302.5 Determination of reportable

quantities.

302.6 Notification requirements.

302.7 Penalties.

Authority: Section 102 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 USC 9602; Sections 311 and 501(a) of the Federal Water Pollution Control Act, 33 USC 1321 and 1361.

§ 302.1 Applicability.

This regulation designates under section 102(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 ("the Act") those substances in the statutes referred to in section 101(14) of the Act, identifies reportable quantities for these substances, and sets forth the notification requirements for releases of these substances. This regulation also sets forth reportable quantities for hazardous substances designated under section 311(b)(2)(A) of the Clean Water Act.

§ 302.2 Abbreviations.

CASRN = Chemical Abstracts Service Registry Number RCRA = Resource Conservation and Recovery Act of 1976, as amended lb = poundkg=kilogram RQ=reportable quantity

§ 302.3 Definitions.

As used in this part, all terms shall have the meaning set forth below:

"The Act", "CĔRCLA", or "Superfund" means the Comprehensive Environmental Response. Compensation, and Liability Act of 1980 (Pub. L. 96-510);

"Administrator" means the Administrator of the United States **Environmental Protection Agency**

'consumer product" shall have the meaning stated in 15 U.S.C. 2052;

"environment" means (1) the navigable waters, the waters of the contiguous zone, and the ocean waters of which the natural resources are under the exclusive management authority of the United States under the Fishery Conservation and Management Act of 1976, and (2) any other surface water, ground water, drinking water supply, land surface or subsurface strata, or ambient air within the United States or under the jurisdiction of the United States:

'facility" means (1) any building, structure, installation, equipment, pipe or pipeline (including any pipe into a sewer or publicly owned treatment works), well, pit, pond, lagoon, impoundment, ditch, landfill, storage container, motor vehicle, rolling stock, or aircraft, or (2) any site or area where a hazardous substance has been deposited, stored, disposed of, or placed, or otherwise come to be located; but does not include any consumer product in consumer use or any vessel;

"hazardous substance" means any substance designated pursuant to 40 CFR 302:

"hazardous waste" shall have the meaning provided in 40 CFR 261.3:

"navigable waters" or "navigable waters of the United States means waters of the United States, including the territorial seas;

'offshore facility" means any facility of any kind located in, on, or under, any of the navigable waters of the United States, and any facility of any kind which is subject to the jurisdiction of the United States and is located in, on, or under any other waters, other than a vessel or a public vessel;

'onshore facility" means any facility (including, but not limited to, motor vehicles and rolling stock) of any kind located in, on, or under, any land or nonnavigable waters within the United

'person" means an individual, firm, corporation, association, partnership, consortium, joint venture, commercial entity. United States Government, State, municipality, commission, political subdivision of a State, or any interstate

"release" means any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment, but excludes (1) any release which results in exposure to persons solely within a workplace, with respect to a claim which such persons may assert against the employer of such persons, (2) emissions from the engine exhaust of a motor vehicle, rolling stock, aircraft, vessel, or pipeline pumping station engine, (3) release of source, byproduct, or special nuclear material from a nuclear incident, as those terms are defined in the Atomic Energy Act of 1954, if such release is subject to requirements with respect to financial protection established by the Nuclear Regulatory Commission under Section 170 of such Act, or for the purposes of Section 104 of the Comprehensive Environmental Response,

Compensation, and Liability Act or any other response action, any release of source, byproduct, or special nuclear material from any processing site designated under section 102(a)(1) or 302(a) of the Uranium Mill Tailings Radiation Control Act of 1978, and (4) the normal application of fertilizer;

"reportable quantity" means that quantity, as set forth in this part, the release of which requires notification pursuant to this part;

"United States" include the several States of the United States, the District of Columbia, the Commonwealth of Puerto Rico, Guam, American Samoa, the United States Virgin Islands, the Commonwealth of the Northern Marianas, and any other territory or possession over which the United States has jurisdiction; and

"vessel" means every description of watercraft or other artificial contrivance used, or capable of being used, as a means of transportation on water.

§ 302.4 Designation of hazardous substances.

- (a) Listed hazardous substances. The elements and compounds and hazardous wastes appearing in Table 302.4 are designated as hazardous substances under section 102(a) of the Act.
- (b) Unlisted hazardous substances. A solid waste, as defined in 40 CFR 261.2, which is not excluded from regulation as a hazardous waste under 40 CFR 261.4(b), is a hazardous substance under section 101(14) of the Act if it exhibits any of the characteristics identified in 40 CFR 261.20 through 261.24.

Table 302.4-List of Hazardous Substances and Reportable Quantities

Note-The numbers under the column headed "CASRN" are the Chemical Abstracts Service Registry Numbers for each hazardous substance. Other names by which each hazardous substance is identified in other statutes and their implementing regulations are provided in the "Regulatory Synonyms' column. The "Statutory RQ" column lists the RQs for hazardous substances established by section 102 of CERCLA. The "Statutory Code" column indicates the statutory source for designating each substance as a CERCLA hazardous substance: "1" indicates that the statutory source is section 311(b)(4) of the Clean Water Act, "2" indicates that the source is section 307(a) of the Clean Water Act, "3" indicates that the source is section 112 of the Clean Air Act, and "4" indicates that the source is RCRA section 3001. The

"RCRA Waste Number" column provides the waste identification numbers assigned to various substances by RCRA regulations. The column headed "Category" lists the code

letters "X," "A," "B," "C," and "D," which are associated with reportable quantities of 1, 10, 100, 1000, and 5000 pounds, respectively. The "Pounds (kg)" column provides the reportable quantity for each hazardous substance in pounds and kilograms.

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES

				Statutory			Final RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code f	RCRA Waste Number	Catego- ry	Pounds(Kg)
Acenaphthene	83329		1*	2	***************************************	×	1## (0.454)
Acenaphthylene	208968		1*	2	***************************************	х	1## (0.454)
Acetaidehyde	75070	Ethanal	1000	1,4	U001	С	1000 (454)
Acetaldehyde, chloro	107200	Chloroacetaldehyde	1*	4	P023	С	1000 (454)
Acetaldehyde, trichloro	75876	Chloral	1*	4	U034	x	1#(0.454)
Acetamide, N-(aminothioxomethyl)	591082	1-Acetyl-2-thiourea	1*	4	P002	С	1000 (454)
Acetamide, N-(4-ethoxyphenyl)	62442	Phenacetin	1*	4	U187	x	1# (0.454)
Acetamide, N-9H-fluoren-2-yl	53963	2-Acetylaminofluorene	1*	4	U005	х	1# (0.454)
Acetamide, 2-fluoro-	640197	Fluoroacetamide	1*	4	P057	8	100(45.4)
Acetic acid	64197		1000	1		D	6000 (2270)
Acetic acid, ethyl ester	141786	Ethyl acetate	1*	4	U112	D	5000 (2270)
Acetic acid, fluoro-, sodium salt	62748	Fluoroacetic acid, sodium salt	1*	4	P058	A	10 (4.54)
Acetic acid, tead salt	301042	Lead acetate	5000	1,4	U144	D	5000# (2270)
Acetic acid, thallium(I) salt	563688	Thallium(I) acetate	1*	4	U214	×	1## (0.454)
Acetic anhydride	108247		1000	1		D	5000 (2270)
Acetimidic acid,N-E(methylcarbamoyl) oxy3thio-, methyl ester.	16752775	Methomyl	1*	4	P066	8	100 (45.4)
Acetone	67641	2-Propanone	1*	4	U002	D	5000 (2270)
Acetone cyanohydrin	75865	2-MethyllactonitrilePropanenitrile, 2-hydroxy-2-methyl-	10	1,4	P069	A	10 (4.54)
Acetonitrile	75058	Ethanenitrile	1*	4	U003	D	5000 (2270)
3-(alpha-Acetonylbenzyl)- 4-hydroxycoumarin and salts	. 81812	Warfarin	1*	4	P001	В	100 (45.4)
Acetophenone	98862	Ethanone, 1-phenyl	1*	4	U004	Ď	5000 (2270)
2-Acetylaminofluorene	53963	Acetamide, N-9H-fluoren-2-yl	1*	4	U005	×	1# (0.454)
Acetyl bromide	506967		5000	1		. D	5000 (2270)
Acetyl chloride	75365	Ethanoyl chloride	5000	1,4	U006	D	5000 (2270)
1-Acetyl-2-thiourea	591082	Acetamide, N-(aminothioxomethyl)	1*	4	P002	С	1000 (454)
Acrolein	107028	2-Propenal	1	1,2,4	P003	×	1 (0.454)
Acrylamide	79061	2-Propenamide	1*	4	U007	D	5000 (2270)
Acrylic acid	79107	2-Propenoic acid	1*	4	U008	D	5000 (2270)
Acrylonitrile	107131	2-Propenenitrile	100	1,2,4	U009	В	100# (45.4)
Adipic acid	124049		5000	1		. 0	5000 (2270)
Alanine, 3-[p-bis(2-chloroethyl)amino1phenyl-,L	148823	Melphatan	11	4	U150	x	1# (0.454)
Aldicarb	116063	Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino) carbonyl]oxime.	1*	4	P070	×	1 (0.454)
Aldrin	309002	1,2,3,4,10-10-Hexachloro-1,4,4a,5,8,8a-hexahydro- 1,4:5,8-endo, exo- dimethanonaphthalene.	1 79	1,2,4	P004	×	1# (0.454)
Allyl alcohol	107186	2-Propen-1-ol	100	1,4	P005	В	100 (45.4)
Aflyf chloride	107051		1000	1		. С	1000 (454)
Aluminum phosphide	20859738		1"	4	P006	В	100 (45.4)
Aluminum sulfate	10043013		5000	1		D	5000 (2270)
5-(Aminomethyl)-3-isoxazofol	2763964	3(2H)-Isoxazolone, 5-(aminomethyl)	. 1*	4	P007	С	1000 (454)
4-Aminopyridine	504245	4-Pyridinamine	. 1*	4	P006	С	1000 (454)

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

				Statutory	r	Final RO		
Hazardous Substance	CASRN	Ragulatory Synonyms	RQ.	Code †	RCRA Waste Number	Catego- ry	Pounds(Kg)	
Amitrole	61825	1H-1,2,4-Triazol-3-amine	1*	4	U011	×	1# (0.454)	
Ammonia	7664417		100	1		В	100## (45.4)	
Ammonium acetate	631618	.А	5000	1		D	5000 (2270)	
Ammonium benzoate	1863634		5000	1		D	5000 (2270)	
Ammonium bicarbonate	1066337		5000	1		• D	5000 (2270)	
Ammonium bichromate	7789095		1000	1		С	1000# (454)	
Ammonium bifluoride	1341497		5000	'1		D	5000## (2270)	
Ammonium bisuifite	10192300		5000	1		D	5000 (2270)	
Ammonium carbamate	1111780	-	5000	1	 	D	5000 (2270)	
Ammonium carbonate	506876		5000	1		D	5000 (2270)	
Ammonium chloride	12125029		5000	1	ļ	D	5000 (2270)	
Ammonium chromate	7788989		1000	1		С	1000# (454)	
Ammonium citrate, dibasic	3012655		5000	1		D	5000 (2270)	
Ammonium fluoborate	13826830		5000	,		D.	5000 (2270)	
Ammonium fluoride	12125018		5000	,		В	100 (45.4)	
Ammonium hydroxide	1336216		1000	,		С	1000 (454)	
Ammonium oxalate	6009707		5000	,		D	5000 (2270)	
٥	5972736 14258492							
Ammonium picrate	131748	Phenol, 2,4,6-trinitro-, ammonium salt	1.	4	P009	A	10 (4.54)	
Ammonium silicofluoride	16919190		1000	,		С	1000 (454)	
Ammonium sulfamate	7773060		5000	1		D	5000 (2270)	
Ammonium sulfide	12135761	:	5000	1		B	100 (45.4)	
Ammonium sulfite	10196040		5000	1		D	5000 (2270)	
Ammonium tartrate	14307438		5000	1		D	5000 (2270)	
	3164292		1					
Ammonium thiocyanate	1762954		5000	1		. 0	5000 (2270)	
Ammonium thiosulfate	7783188		5000	1		. D	5000 (2270)	
Ammonium vanadate	7803556	Vanadic acid, ammonium salt	1°	4	P119	С	1000 (454)	
Amyl acetateiso-	628637	,	1000	1		. D	5000 (2270)	
sec- tert-	626380 625161							
Aniline	62533	Benzenamine	1000	1,4	U012	D	5000 (2270)	
Anthracene	120127		۱۰.	2		. x	1## (0.454)	
Antimony ††	7440360		۱۰.	2		. x	1## (0.454)	
ANTIMONY AND COMPOUNDS			1.	2		<u>.</u>		
Antimony pentachloride	7647189		1000	1		C	1000 (454)	
Antimony potassium tartrate		:	1000	,		В	100 (45.4)	
Antimony tribromide	7789619		1000	,		. с	1000 (454)	
Antimony trichloride	10025919		1000	1		. с	1000(454)	
Antimony trifluoride	_		1000	1		. с	1000 (454)	
Antimony trioxide	1309644		5000	,		. с	1000 (454)	
Aroctor 1018	1	Polychlorinated Biphenyls (PCBs)	. 10	1,2		. А	10# (4.54)	
Aroclor 1221		Polychlorinated Biphenyls (PCBs)	. 10	1,2		. A	10# (4.54)	
Aroclor 1232	11141165	Polychlorinated Biphenyls (PCBs)	. 10	1,2	ļ	. A	10# (4.54)	
Aroclor 1242	53469219	PolychlorinatedBiphenyls (PCBs)	. 10	1,2		. A	10# (4.54)	
	1		1	1	1	!	1	

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

			Statutory		Final RQ		
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Catego- ry	Pounds(Kg)
Aroclor 1248	12672296	Polychlorinated Biphenyls (PCBs)	10	1,2		A	10# (4.54)
Aroclor 1254	11097691	Polychlorinated Biphenyls (PCBs)	10	1,2		A	10# (4.54)
Aroclor 1260	11096825	Polychlorinated Biphenyls (PCBs)	10	1,2		A	10# (4.54)
Arsenic ††	7440382		1*	2,3		×	1#(0.454)
Arsenic acid	1327522		1.	4	P010	x -	1# (0.454)
•	7778394	·					•
ARSENIC AND COMPOUNDS			1*	2 ,	i		••
Arsenic disulfide	1303328		5000	1 ′		D	5000# (2270)
Arsenic(III) oxide	1327533	Arsenic trioxide	5000	. 1,4	P012	D	5000# (2270)
Arsenic(V) oxide	1303282	Arsenic pentoxide	5000	1,4	P011	D	5000#(2270)
Arsenic pentoxide	1303282	Arsenic(V) oxide	5000	1,4	P011	D	5000# (2270)
Arsenic trichloride	7784341		5000	1		D	5000# (2270)
Arsenic trioxide	1327533	Arsenic(III) oxide	5000	1,4	P012	D	5000# (2270)
Arsenic trisulfide	1303339		5000	1		O	5000# (2270)
Arsine, diethyl	692422	Diethylarsine	1*	4	P038	×	1# (0.454)
Asbestos †††	1332214		1*	2,3		х	1# (0.454)
Auramine	492808	Benzenamine, 4,4'-carbonimidoylbis(N,N-dimethyl	11*	4	U014	х	1# (0.454)
Azaserine	115026	L-Serine, diazoacetate (ester)	۱۰ ا	4	U015	×	1# (0.454)
Aziridine	151564	Ethylenimine	1*	4	P054	x	1# (0.454)
Azirino(2'.3'.3,4)pyrrolo(1,2-a)indole-4,7-dione,6-amino-8- [((aminocarbonyl)oxy)methyl]- 1,1a,2,8,8a,8b- hexahydro-8a-methoxy-5-mathyl	50077	Mitomycin C	1*	4	U010	x	1# (0.454)
Barium cyanide	542621		10	1,4	P013	A	10 (4.54)
Benzfj]aceanthrylene, 1,2-dihydro-3-methyl	56495	3-Methylcholanthrone	1.	4	U157	×	1# (0.454)
Benz[c]acridine	225514	3,4-Benzacridine	1.	4	U016	x	1# (0.454)
3,4-Benzacridine	225514	Benz[c]acridine	1*	4	U016	×	1# (0.454)
Benzal chloride	98873	Benzene, dichloromethyl	1.	4	U017	D	5000 (2270)
Benz[a]anthracene	56553	1,2-Benzanthracene	1.	2,4	U018	x	1# (0.454)
		Benzo[a]anthracene		,			
1,2-Benzanthracene	. 56553	Benz(a)anthracene Benzo(a)anthracene	1.	2,4	U018	X	1# (0.454)
1,2-Benzanthracene, 7,12-dimethyl	57976	7,12-Dimethylbenz[a]anthracene	1.	4	U094	×	1# (0.454)
Benzenamine	62533	Aniline	1000	1,4	U012	D	5000 (2270)
Benzenamine, 4,4'-carbonimidoylbis(N,N-dimethyl	492808	Auramine	. 1*	4	U014	x	1# (0.454)
Benzenamine, 4-chloro	106478	p-Chloroaniline	1.	4	P024	С	1000 (454)
Benzenamine, 4-chloro-2-methyl-,hydrochloride		4-Chloro-o-toluidine, hydrochloride	11*	4	U049	x	1# (0.454)
Benzenamine, N,N-dimethyl-4-phenylazo	60117	Dimethylaminoazobenzene	1.	4	, U093	x	1# (0.454)
Benzenamine, 4,4'-methylenebis(2-chloro	101144	4,4'-Methylenebis(2-chloroaniline)	1.	4	U158	x	1# (0.454)
Benzenamine, 2-methyl-, hydrochloride	636215	o-Toluidine hydrochloride	1.	4	U222	×	1# (0.454)
Benzenamine, 2-methyl-5-nitro	99558	5-Nitro-o-toluidine	1.	4	U181	x	1# (0.454)
Benzenamine, 4-nitro	100016	p-Nitroaniline	1.	4	P077	ם	5000 (2270)
Benzerie	71432		1000	1,2,3,4	U019	С	1000# (454)
Benzene, 1-bromo-4-phenoxy	101553	4-Bromophenyl phenyl ether	1.	2,4	U030	В	100 (45.4)
Benzene, chloro	108907	Chlorobenzene	100	1,2,4	U037	8	100 (45.4)
Benzene, chloromethyl-	100447	Benzyl chloride	100	1,4	P028	В	100# (45.4)
Benzene, 1,2-dichtoro-	95501	1,2-Dichlorobenzene	100	1,2,4	U070	В	100 (45.4)
•	· :	o-Dichlorobenzene					

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

		Statutory			Final RQ		
Hazardous Substance	CASRN	. Regulatory Synonyms	RQ	Code #	RCRA Waste Number	Catego- ry	Pounds(Kg)
Benzene, 1,3-dichloro-	541731	1,3-Dichlorobenzenem-Dichlorobenzene	1*	2,4	U071	В	100 (45.4)
Benzene, 1,4-dichloro-	106467	1,4-Dichlorobenzenep-Dichlorobenzene	100	1,2,4	U072	8	100 (45.4)
Benzene, dichloromethyl	. 98873	Benzal chloride	11	4	U017	O	5000 (2270)
Benzene, 2,4-diisocyanatomethyl	584849 91087 26471625	Toluene diisocyanate	1.	4	U223	8	100 (45.4)
Benzene, dimethyl		Xylene	1000	1,4	U239	С	1000 (454)
m- ο- ρ-	108383 95476 106423	m- o- p-					
Benzene, hexachloro-	. 118741	Hexachlorobenzene	1*	2,4	U127	×	1# (0.454)
Benzene, hexahydro	110827	Cyclohexane	1000	1,4	U056	С	1000 (454)
Benzene, hydroxy-	108952	Phenol	1000	1,2,4	U188	c	1000## (454)
Benzene, methyl	108883	Toluene	1000	1,2,4	U220	С	1000 (454)
Benzene, 1-methyl-2,4-dinitro	121142	2,4-Dinitrotoluene	1000	1,2,4	U105	С	1000# (454)
Benzene, 1-methyl-2,6-dinitro	606202	2,6-Dinitrotoluene	1000	1,2,4	U106	С	1000# (454)
Benzene, 1,2-methylenedioxy-4-allyl	94597	Satrole	1.	4	U203	×	1# (0.454)
Benzene, 1,2-methylenedioxy-4-propenyl	. 120581	tsosatrole	1.	4	U141	×	1# (0.454)
Benzene, 1,2-methylenedioxy-4-propyl	94586	Dihydrosafrolo	1.	4	U090	×	1# (0.454)
Benzene, 1-methylethyl	98828	Cumene	1.	4	U055	В	5000 (2270)
Benzene, nitro-	98953	Nitrobenzene	1000	1,2,4	U169	С	1000 (454)
Benzene, pentachloro		Pentachlorobenzene] ,.	4	U183	×	1## (0.454)
Benzene, pentachtoronitro-		Pentachloronitrobenzene	1.	4	U185	×	1# (0.454)
Benzene, 1,2,4,5-tetrachloro-	Į.	1.2.4.5-Tetrachlorobenzene] ,.	4	U207	D	5000 (2270)
Benzene, trichloromethyl	1 .	Benzotrichloride] ,.	4	U023	x	1# (0.454)
Benzene, 1,3,5-trinitro-	1	sym-Trinitrobenzene	1.	4	U234	.x	1## (0.454)
	1			4	U038	x	1# (0.454)
Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)- alpha-hydroxy-, ethyl ester.	510156	Ethyl 4,4'-dichlorobenzilate					
1,2-Benzenedicarboxylic acid anhydride		Phthalic anhydride	[4	U190	D	5000 (2270)
1,2-Benzenadicarboxylic acid,[bis(2-ethylhexyl)] ester	1	Bio(2-ethylhexyl)phthalate		2,4	U028	X	1# (0.454)
1,2-Benzenedicarboxylic acid,dibutyl ester	84742	n-Butyl phthalate Dibutyl phthalate Di-n-butyl phthalate	. 100	1,2,4	U069	. *	10 (4.54)
1,2-Benzenedicarboxylic acid,diethyl ester	84662	Diethyl phthalate	. 1*	2,4	U088	С	1000 (454)
1,2-Benzenedicarboxylic acid,dimethyl ester	131113	Dimothyl phthalate	11.	2,4	U102	D	5000 (2270)
1,2-Benzenedicarboxylic acid,dl-n-octyl ester	117840	Di-n-octyl phthalate	. 1*	2.4	U107	D	5000 (2270)
1,3-Benzenediol	108463	Resorcinol	. 1000	1,4	U201	D	5000 (2270)
1,2-Benzenediol,4-[1-hydroxy-2-(methylamino)ethyl]	51434	Epinephrine	1*	4	P042	С	1000 (454)
Banzenesultonic acid chloride	98099	Benzenesulfanyl chloride	. 1*	4	U020	В	100 (45.4)
Benzenesulfonyl chloride	98099	Benzenesulfonic acid chloride	. 1*	4	U020	В	100 (45.4)
Bonzenethiol	108985	Thiophenol	. 11	4	P014	В	100 (45.4)
Benzidina	92875	(1,1'-Biphenyl)-4,4'diamine	. 1*	2,4	U021	×	1# (0.454)
1,2-Benzisothiazolin-3-one,1,1-dioxide, and salts	81072	Saccharin and salts	. 1•	4	U202	×	1# (0.454)
Benzo(a)anthracene	56553	Benz[a]anthracene	. 1*	2,4	U018	×	1# (0.454)
Benzo[b]fluoranthene	205992		. 1*	2	,	. x	1# (0.454)
Benzo(k)fluoranthene	207083		1*	2		. x	1# (0.454)
		1		,			•

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

,			Statutory		Final RO		
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Catego- ry	Pounds(Kg)
Benzo[j,k]fluorene	206440	Fluoranthene	1.	2,4	U120	х	1## (0.454)
Benzoic acid	65850		5000	1		D	5000 (2270)
Benzonitrile	100470		1000	1		D	5000 (2270)
Benzo[ghi]perylene	191242		1*	2		x	1## (0.454)
Benzo[a]pyrene	50328	3,4-Benzopyrene	1*	2,4	U022	х	1# (0.454)
3,4-Benzopyrene	50328	Benzo[a]pyrene	1.	2,4	U022	x	1# (0.454)
p-Benzoquinone		1,4-Cyclohexadienedione	1*	4	U197	x	1## (0.454)
Benzotrichloride	1	Benzene, trichloromethyl-	1.	4	U023	x	1# (0.454)
Benzoyl chloride	98884		1000	,		c	1000 (454)
1,2-Benzphenanthrene	1	Chrysene	1.	2,4	U050	x	1# (0.454)
Benzyl chloride		Benzene, chloromethyl-	100	1,4	P028	В	100# (45.4)
Beryllium ††	7440417	Beryllium dust	1.	2,3,4	P015	x	1# (0.454)
BERYLLIUM AND COMPOUNDS		Baymon cust	'.	2,3,4	,	Î Î	**
Beryllium chloride			5000	1		D	5000# (2270)
Beryllium dust	7440417		1*	2,3,4	P015	X	1# (0.454)
Beryllium fluoride		Del yman .	5000	1	7013	D	5000# (2270)
Beryllum nitrate	13597994		5000			D	
berymun invale	7787555		3000	1		U	5000# (2270)
alpha - BHC	319846		1*	2		x	1# (0.454)
bcta - BHC	319857		1.	2		x	1# (0.454)
gamma - BHC	58899	Hexachlorocyclohexane (gamma isomer)	1	1,2,4	U129	×	1# (0.454)
4-H PUG		Lindane					
delta - BHC	319868		1.	2		X	1## (0.454)
2,2'-Bioxirane		1,2:3,4-Diepoxybutane	1.	4	U085	X	1# (0.454)
(1,1'-Biphenyl)-4,4'diamine	ļ	Benzidine	1.	2,4	U021	×	1# (0.454)
(1,1'-Biphenyi)-4,4'diamine,3,3'dichloro		3,3'-Dichlorobenzidine	1*	2,4	U073	X	1# (0.454)
(1,1'-Bipheny!)-4,4'diamine,3,3'dimethoxy		3,3'-Dimethoxybenzidine	1.	4	U091	×	1# (0.454)
(1,1'Biphenyt)-4,4'-diamine,3,3'-dimethyl	1	3,3'-Dimethylbenzidine		4	U095	×	1# (0.454)
Bis(2-chloroethoxy) methane		Ethane, 1,1'-[methylenebis(oxy)]bis(2-chloro	1*	2,4	U024	С	1000 (454)
Bis (2-chloroethyl) ether	111444	Dichloroethyl ether	1.	2,4	U025	×	1# (0.454)
Bis(2-chloroisopropyl) ether	108601	Propane, 2,2'-oxybis(2-chloro	1.	2,4	U027	С	1000 (454)
Bis(chloromathyl) ether	542881	Methane, oxybis(chloro	1.	4	P016	x	1# (0.454)
Bis(dimethylthiocarbamoyl) disulfide	137268	Thiram	1.	4	U244	A	10 (4.54)
Bis(2-ethylhexyl)phthalate	117817	1,2-Benzenedicarboxylic acid, [bis(2-ethylhexyl)] ester	1.	2,4	U028	х	1# (0.454)
Bromine cyanide	506683	Cyanogen bromide	1.	4	U246	c .	1000 (454)
Bromoacetone	598312	2-Propanone, 1-bromo-	1.	4	P017	С	1000 (454)
Bromoform	75252	Methane, tribromo	1*	2,4	U225	В	100 (45.4)
4-Bromophenyl phenyl ether	101553	Benzene, 1-bromo-4-phenoxy	1*	2,4	U030	В	100 (45.4)
Brucine	357573	Strychnkdin-10-one, 2,3-dimethoxy	1*	4	P018	В	100 (45.4)
1,3-Butadiene, 1,1,2,3,4,4-hexachloro	87683	Hexachlorobutadiene	1*	2,4	U128	×	1# (0.454)
1-Butanamine, N-butyl-N-nitroso	924163	N-Nitrosodi-n-butylamine	1*	4	U172	×	1# (0.454)
Butanoic acid, 4-[bis(2-chloroethyl)amino]benzene	305033	Chlorambucit	1.	4	U035	×	1# (0.454)
1-Butanol	71363	ri-Butyl alcohol	1:	4	U031	D	5000 (2270)
2-Butanone	78933	Mothyl ethyl ketone	1.	4	U159	D	5000 (2270)
	į.	1	1	I	1	1	f

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

		·	ļ <u>-</u> -,	Statutory			Final RQ
Hazardous Substance	CASRN	Regulatory Synonyms	ЯQ	Code f	RCRA Waste Number	Catego- ry	Pounds(Kg)
2-Butanone peroxide	1338234	Methyl ethyl ketone peroxide	1.	4	U160	A	10 (4.54)
2-Butenal	123739 4170303	Crotonaldehyde	100	1,4	U053	В	100 (45.4)
2-Butene, 1,4-dichloro-	764410	1,4-Dichloro-2-butene	1'	4	U074	х	1 (0.454)
Butyl acetate	123884		5000	1		D	5000 (2270)
iso- sec- tert-	105464 540885						
n-Butyl alcohol	}	1-Butanol	1.	4	U031	D	5000 (2270)
Butylamine			1000	1		С	1000 (454)
iso- sec-	78819 513495						1
sec- tert-	13952846 75649						
Butyl benzyl phthalate	1		,.	2		В	100 (45.4)
n-Butyl phthelate		1,2-Benzenedicarboxylic acid,dibutyl ester	100	1,2,4	U069		10 (4.54)
		Dibutyl phthalate Di-n-butyl phthalate					
Butyric acidiso-	107926 79312		5000	1	ļ	D	5000 (2270)
Cacodylic acid	75605	Hydroxydimethylarsine oxide	, ,.	4	U136	×	1# (0.454)
Cadmium ††	7440439		,.	2		. x	1# (0.454)
Cadmium acetate	543908		100	1		. 9	100# (45.4)
CADMIUM AND COMPOUNDS			. 1'	2			••
Cadmium bromide	7789426		. 100	1		В	100# (45.4)
Cadmium chloride	10108642		100	1		. 8	100# (45.4)
Calcium arsenate	7778441		1000	1		С ,	1000# (454)
Calcium arsenite	52740166		1000	1		. с	1000# (454)
Calcium carbide	75207		. 5000	1		. A	10 (4.54)
Calcium chromate	13765190	Chromic acid, calctum salt	1000	1,4	U032	С	1000# (454)
Calcium cyanide	592018		. 10	1,4	P021	A	10 (4.54)
Calcium dodecylbenzene sulfonate	26264062		1000	1		. С	1000 (454)
Calcium hypochlorite	7778543		100	1		. A	10(4.54)
Camphene, octachloro	8001352	Toxaphene		1,2,4	P123	X	1# (0.454)
Captan			. 10	1		. ^	10## (4.54)
Carbamic acid, ethyl ester	1	} '	1	4	U238	X	1# (0.454)
Carbamic acid, methylnitroso-,ethyl ester	1	1	1'	4	U178	× .	1# (0.454) 1# (0.454)
Carbamide, N-ethyl-N-nitroso-	1		1	4	U177	X	1# (0.454)
Carbamide, N-methyl-N-nitroso	ì			4	U219	x	1# (0.454)
Carbaminidoselenoic acid	i] ;.	4	P103	×	1## (0.454)
Carbamoyl chloride, dimethyl-	1 .	Dimethylcarbamoyl chloride]	4	U097	x	1# (0.454)
Carbaryl			1	1		. В	100 (45.4)
Carboluran	j			1		. A	10 (4.54)
Carbon bisulfide	ĺ		5000	1,4	P022	D	5000## (2270
Carbon disulfide	75150	Carbon bisulfide	5000	1,4	P022	D	5000## (2270
Carbonic acid, dithallium (I) salt	6533739	Thallium(I) carbonate	,.	4	U215	×	1## (0.454)
Carbonochloridic acid, methyl ester	79221	Methyl chlorocarbonate		4	U156	C	1000 (454)
Carbon oxyfluoride	353504	Carbonyl fluoride	1.	4	U033	С	1000 (454)
•	ı	1	1	1	1	1	

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

		· · · · · · · · · · · · · · · · · · ·		Statutory		. Final RQ		
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code }	RCRA Waste Number	Catego- ry	Pounds(Kg)	
Carbon tetrachloride	56235	Methane, tetrachloro	5000	1,2,4	U211	0	5000# (2270)	
Carbonyl chloride	75445	Phosgene	5000	1,4	P095	Α '	10 (4.54)	
Carbonyl fluoride	353504	Carbon oxyfluoride	1*	4	U033	С	1000 (454)	
Chloral	75876	Acetaldehyde, trichloro	1*	4	U034	×	1#(0.454)	
Chlorambucii	305033	Butanoic acid, 4-[bis(2-chloroethyl)amino]benzene	1.	4	U035	×	1# (0.454)	
CHLORDANE (TECHNICAL MIXTURE AND METABOLITES).		-	1.	2			••	
Chlordane	57749	Chlordane, technical	1	1,2,4	U036	×	1# (0.454)	
Chlordane, technical	57749	Chlordane 4.7-Methanoindan, 1.2,4,5,6,7,8,8-octachloro- 3a,4,7,7a- tetrahydro-	1	1,2,4	U036	×	1# (0.454)	
CHLORINATED BENZENES			1.	2			••	
CHLORINATED ETHANES			1.	2				
CHLORINATED NAPHTHALENE			1.	2			**	
CHLORINATED PHENOLS			1.	2				
Chlorine	7782505		10	1			10 (4.54)	
Chlorine cyanide	506774	Cyanogen chloride	10	1,4	P033	A	10 (4.54)	
Chlornaphazine	494031	2-Naphthylamine, N,N-bis(2-chloroethyl)	1*	4	U026	×	1# (0.454)	
Chloroacetaldehyde	107200	Acetaldehyde, chloro	1.	4	P023	c	1000 (454)	
CHLOROALKYL ETHERS			1.	2			••	
p-Chloroaniline	İ	Benzenamine, 4-chloro	١.	4	P024	c	1000 (454)	
Chlorobenzene		Benzene, chloro	100	1,2,4	U037	8	100 (45.4)	
4-Chloro-m-cresol	1	p-Chloro-m-cresol	1*	2,4	U039	.0	5000 (2270)	
p-Chloro-m-cresol	59507	4-Chloro-m-cresol	1.	2,4	U039	D	5000 (2270)	
Chlorodibromomethane	124481		1.	2		. в	100 (45.4)	
1-Chloro-2,3-epoxypropane	106898	Epichlorohydrin	1000	1,4	U041	С	1000# (454)	
Chloroethane	75003		1.	2	ļ	. х	1## (0.454)	
2-Chloroethyl vinyl ether	110758	Ethene, 2-chloroethoxy-	1*	2,4	U042	С	1000 (454)	
Chloroform	67663	Methane, trichloro-	5000	1,2,4	U044	D	5000# (2270)	
Chloromethyl methyl ether	107302	Methane, chloromethoxy	. 1•	1 4	U046	×	1# (0.454)	
beta-Chloronaphthalene	91587	2-Chloronaphthalene	۱۰	2,4	U047	D	5000 (2270)	
2-Chloronaphthalene	91587	beta-Chloronaphthalene	. 1*	2,4	U047	D	5000 (2270)	
2-Chlorophenol	95578	o-ChlorophenolPhenol, 2-chloro-	1*	2,4	U048	В	100 (45.4)	
o-Chlorophenol	95578	2-ChlorophenolPhenol, 2-chloro-	. 1*	2,4	U048	В	100 (45.4)	
4-Chlorophenyl phenyl ether	7005723		. 1*	2		. D	5000 (2270)	
1-(o-Chlorophenyl)thiourea	5344821	Thiourea, (2-chlorophenyl)	. 1*	4	P026	В	100 (45.4)	
3-Chloropropionitrile	542767	Propanenitrile, 3-chloro	1.	4	P027	С	1000 (454)	
Chlorosulfonic acid	7790945		1000	1		. С	1000 (454)	
4-Chloro-o-toluidine, hydrochloride	3165933	Benzenamine, 4-chloro-2-methyl-,hydrochloride	1.	4	U049	×	1# (0.454)	
Chlorpyrifos			1	1	ļ	. ×	1 (0.454)	
Chromic acetate	1066304		1000	1	ļ	. С	1000## (454)	

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

	1				,		Final RO
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code I	RCRA Waste Number	Catego- ry	Pounds(Kg)
Chromic acid			1000	1		С	1000# (454)
Chromic acid, calcium salt	13765190	Calcium chromate	1000	1,4	U032	С	1000# (454)
Chromic sulfate	10101538		1000	1		С	1000## (454)
Chromium ††	7440473		1*	2		×	1# (0.454)
CHROMIUM AND COMPOUNDS			1*	2			••
Chromous chloride	10049055		1000	1		С	1000## (454)
Chrysene	218019	1,2-Benzphenanthrene	1.	2,4	U050	×	1# (0.454)
Cobaltous bromide	7789437		1000	1		С	1000(454)
Cobaltous formate	544183		1000	1		С	1000 (454)
Cobaltous sulfamate	14017415		1000	,	ļ,,,,,,	С	1000 (454)
Coke Oven Emissions	N.A.		1.	3		×	1# (0.454)
Copper ††			1.	2		. x	1## (0.454)
COPPER AND COMPOUNDS	- 1 .		1.	2			••
Copper cyanide			1.	4	P029	A	10 (4.54)
Coumaphos	- 1	·	10	1		A	10 (4.54)
			1.	i	U051	x	1
Creosote				4		1	1# (0.454)
Cresol(s)	108394	Cresylic acid	1000	1,4	U052	С	1000## (454)
o- p-	95487 106445						
Cresytic acid	1319773	Cresot(s)	1000	1,4	U052	c	1000## (454)
m- o-	108394 95487						
P-	106445						ļ
Crotonaldehyde	123739 4170303	2-Butenal	100	1,4	· U053	В	100 (45.4)
Cumene	ł	Benzene, 1-methylethyl	1.	4	U055	D	5000 (2270)
Cupric acetate		Congo of Thierry City	100	1		В	100 (45.4)
Cupric acetoarsenite			100	,		В	100# (45.4)
Cupric chloride	- 1			1		A	10## (4.54)
,			10				1
Cupric nitrate	1		100	1		В .	100 (45.4)
Cupric oxalate	1		100	1		. B	100 (45.4)
Cupric sulfate			10	1		^	10## (4.54)
Cupric sulfate ammoniated			100	1		. В	100 (45.4)
Cupric tartrate			100	1		В	100## (45.4)
CYANIDES			1*	2			
Cyanides (soluble cyanide salts), not elsewhere specified.	57125		1.	4	P030	A	10 (4.54)
Cyanogen	460195		1.	4	P031	В	100 (45.4)
Cyanogen bromide	506683	Bromine cyanide	1.	4	U246	С	1000 (454)
Cyanogen chloride	506774	Chlorine cyanide	10	1,4	P033	A	10 (4.54)
1,4-Cyclohexadienedione	106514	p-Benzoquinone	1.	4	U197	×	1## (0.454)
Cyclohexane	110827	Benzene, hexahydro-	1000	1,4	U056	С	1000(454)
Cyclohexanone	108941		1.	4	U057	D	5000 (2270)
1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro	77474	Hexachlorocyclopentadiene	.] ,	1,2,4	U130	×	1# (0.454)
Cyclophosphamide	50180	2H-1,3,2-Oxazaphosphorine,2-[bis(2-chloroethyl)amino]	1.	4	U058	x	1# (0.454)
		tetrahydro-2-oxide.			1		

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

				Statutory		Final RO		
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Catego- ry	Pounds(Kg)	
2,4-D Acid	94757	2,4-D, salts and esters	100	1,4	U240	В	100 (45.4)	
2,4-D Esters			100	1		В	100 (45.4)	
	94791 94804			1				
	1320189 1928387	-						
	1928616			ļ.				
	1929733 2971382			i				
	25168267 53467111			İ				
2,4-D, salts and esters	94757	2,4-D Acid2,4-Dichlorophenoxyacetic acid, salts and esters	100	1,4	U240	В	100 (45.4)	
Daunornycin	. 20830813	5,12-Naphthacenedione, (8S-cis)-8-acetyl-10-[3-amino-	1.	4	U059	×	1# (0.454)	
·		2,3,6-trideoxy- alpha-L-lyxo- hexopyranosyl)oxyl- 7,8,9,10-tetrahydro- 6,8,11-trihydroxy- 1-methoxy		[
DDD	72548	4,4' DDD Dichlorodiphenyl dichloroethane	1	1,2,4	U060	×	1# (0.454)	
		TDE ·]				
4,4' DDD	72548	DDD	1	1,2,4	U060	×	1# (0.454)	
		Dichlorodiphenyl dichloroethane TDE	•		ł			
DDE	72559	4,4' DDE	1*	2		×	1# (0.454)	
4,4' DDE	72559	DOE	1*	2	ļ	×	1# (0.454)	
DDT	1	4,4' DDT	1	1,2,4	U061	×	1# (0.454)	
	30230	Dichlorodiphenyl trichloroethane	•	,,2,4	0001	^	(0.404)	
4,4'DDT	. 50293	DDT	1	1,2,4	U061	×	1# (0.454)	
	Ĺ	Dichlorodiphenyl trichloroethane						
DDT AND METABOLITES	1		1.	2				
Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta[c,d]- pentalen-2-one.	143500	Kepone	1	1,4	U142	X	1# (0.454)	
Diallate	2303164	S-(2,3-Dichloroallyl) diisopropylthiocarbamate	1.	4	U062	x	1# (0.454)	
Diamine	302012	Hydrazine	1.	4-	U133	×	1# (0.454)	
Diaminotoluene	95807	Toluenediamine	1.	4	U221	x	1# (0.454)	
	25376458 496720				522	"	(====,	
	823405					ļ	ļ	
Diazinon	5333415		1	1	ļ	. х	1 (0.454)	
Dibenz[a,h]anthracene	53703	1,2:5,6-Dibenzanthracene	1*	2,4	U063	· x	1# (0.454)	
,		Dibenzo[a,h]anthracene						
1,2:5,6-Dibenzanthracene	53703	Dibenz(a,h)anthracene Dibenzo(a,h)anthracene	1.	2,4	U063	×	1# (0.454)	
Dibenzo[a,h]anthracene	, 53703	Dibenz[a,h]anthracene	1*	2,4	U063	×	1# (0.454)	
1,2:7,8-Dibenzopyrene	189559	Dibenz[a,i]pyrene	1*	4	U064	×	1# (0.454)	
Dibenz[a,i]pyrene	189559	1,2:7,8-Dibenzopyrene	1.	4	U064	x	1#(0.454)	
1,2-Dibromo-3-chloropropane	96128	Propane, 1,2-dibromo-3-chloro-	1*	4	U066	х	1# (0.454)	
Dibutyl phthalate	84742	1,2-Benzenedicarboxylic acid,dibutyl ester Di-n-butyl phthalate n-Butyl phthalate	100	1,2,4	U069	A	10 (4.54)	
D⊩n-butyl phthalate	84742	1,2-Benzenedicarboxylic acid,dibutyl ester n-Butyl phthalate Dibutyl phthalate	100	1,2,4	U069	A	10 (4.54)	
Dicamba	1918009		1000	1		. c	1000 (454)	
Dichlobenil	Į		1000	,		В	100 (45.4)	
Dichlone	1		1) ×	1 (0.454)	
S-(2,3-Dichloroallyf) diisopropylthiocarbamate		Diallate		4	U062	×	1# (0.454)	
	ſ					D		
3,5-Dichloro-N-(1,1-dimethyl-2-propynyl)benzamide	23950585	Prenamide	1.	4	U192	1	5000 (2270)	

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES-Continued

	T			Statutory			Final RO
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code #	RCRA Waste Number	Catego- ry	Pounds(Kg)
Dichlorobenzene (mixed)	25321226		100	1		В	100 (45.4)
1,2-Dichlorobenzene	95501	Benzene, 1,2-dichloro-	100	1,2,4	U070	8	100 (45.4)
1,3-Dichlorobenzene	541731	Benzene, 1,3-dichtoro	1*	2,4	U071	8	100 (45.4)
1,4-Dichlorobenzene	106467	Benzene, 1,4-dichtoro-	100	1,2,4	U072	В	100 (45.4)
m-Dichlorobenzene	541731	Benzone, 1,3-dichloro- 1,3-Dichlorobenzene	1.	2,4	U071	B	100 (45.4)
o-Dichiorobenzene	95501	Benzene, 1,2-dichloro- 1,2-Dichlorobenzene	100	1,2,4	U070	В	100 (45.4)
p-D:chlorobenzene	106467	Benzene, 1,4-dichloro- 1,4-Dichlorobenzene	100	1,2,4	U072	В	100 (45.4)
DICHLOROBENZIDINE		1, 20, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	1.	2			••
3,3'-Dichlorobenzidine		(1,1'-Biphenyl)-4,4'd;amine,3,3'dichloro		2,4	U073	×	1# (0.454)
Dichtoropromormethane				2		D	5000 (2270)
1,4-Dichloro-2-butene		2-Butene, 1,4-dichloro-		4	U074	x	1 (0.454)
Dichlorodifluoromethane		Methane, dichlorodiffuoro-		4	U075	D	5000 (2270)
	1		1		U060	X	
Dichlorodiphenyl dichloroethane	72548	DDD	. 1	1,2,4	0060	^	1# (0.454)
Dichlorodiphenyl trichloroethane	50293	DDT4,4'DDT	. 1	1,2,4	U061	×	1# (0.454)
1,1-Dichloroethane	75343	Ethane, 1,1-dichloro- Ethylidene dichloride	. 1.	2,4	U076	С	1000 (454)
1,2-Dichloroethane	107062	Ethane, 1,2-dichloro- Ethylene dichloride	5000	1,2,4	U077	D	5000# (2270)
1,1-Dichloroethylene	75354	Ethene, 1,1-dichloro-	5000	1,2,4	U078	D	5000# (2270)
1,2-trans-Dichloroethylene	156605	Ethene, trans-1,2-dichloro	1.	2,4	U079	С	1000 (454)
Dichloroethyl ether	111444	Bis (2-chloroethyl) ether	. 1*	2,4	U025	×	1# (0.454)
2,4-Dichlorophenol	120832	Phenol, 2,4-dichloro	1.	2,4	U081	В	· 100 (45.4)
2,6-Dichlorophenol	87650	Phenol, 2,6-dichloro	. 10	4	U082	В	100 (45.4)
2,4-Dichlorophenoxyacetic acid, salts and esters	94757	2,4-D Acid	100	1,4	U240	В	100 (45.4)
Dichlorophenylarsine	696286	Phenyl dichloroarsine	. 1*	4	P036	×	1# (0.454)
Dichloropropane	26638197 78999		5000	1		. с	1000 (454)
1,3-Dichloropropane	142289						
1,2-Dichloropropane - Dichloropropene (mixture)	1	Propylene dichloride	5000	1,2,4	U083	C	1000 (454) 5000## (2270)
Dichloropropene						_	
2,3-Dichloropropene	26952238 78886		. 5000	1		D	5000## (2270)
1,3-Dichloropropene	542756	Propene, 1,3-dichloro	. 5000	1,2,4	U084	D	5000## (2270)
2,2-Dichloropropionic acid	75990		. 5000	1		. D	5000 (2270)
Dichlorvos	62737		. 10	1	ļ	. A	10 (4.54)
Dieldrin	60571	1,2,3,4,10,10-Hexachloro-8,7-epoxy- 1,4,4a,5,6,7,8,8a-octahydro-endo,exo- 1,4:5,8- dimethanonaphthalene.	1	1,2,4	P037	×	1# (0.454)
1,2:3,4-Diepoxybutane	1464535	2,2'-Bioxirane	. 1*	4	U085	×	1# (0.454)
Diethylamine	109897		. 1000	1		С	1000## (454)
Diethylarsine	692422	Arsine, diethyl-	. 1*	4	P038	. х	1# (0.454)

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

		•		Statutory		Final RO		
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code I	RCRA Waste Number	Catego- ry	Pounds(Kg)	
1,4-Diethylene diaxide	123911	1,4-Dioxane	1*	4	U108	. x	1# (0.454)	
N,N'-Diethylhydrazine	1615801	Hydrazine, 1,2-diethyl	1.	4	U086	x	1# (0.454)	
O,O-Diethyl S-[2-(ethylthio)ethyl]phosphorodithioate	298044	Disulfoton	1 .	1,4	P039	×	1 (0.454)	
O,O-Diethyl S-methyl dithiophosphate	3288582	Phosphorodithioic acid, O,O-diethyl S-methylester	1*	4	U087	D	5000 (2270)	
Diethyl-p-nitrophenyl phosphate	311455	Phosphoric acid,diethyl p-nitrophenyl ester	1*	4	P041	В	100 (45.4)	
Diethyl phthalate	84662	1,2-Benzenedicarboxylic acid,diethyl ester	1.	2,4	U088	С	1000 (454)	
O,O-Diethyl O-pyrazinyl phosphorothioate	297972	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester	1*	4	P040	В	100 (45.4)	
Diethylstilbestrol	56531	4,4'-Stilbenediol, alpha,alpha'-diethyl	1.	4	U089	х	1# (0.454)	
1,2-Dihydro-3,6-pyridazinedione	123331	Maleic hydrazide	1.	4	U148	D	5000 (2270)	
Dihydrosafrole	94586	Benzene, 1,2-methylenedioxy-4-propyl	1*	4	U090	×	1# (0.454)	
Diisopropyl fluorophosphate	55914	Phosphorofluoridic acid,bis(1-methylethyl) ester	1.	4	P043	В	100 (45.4)	
Dimethoate	60515	Phosphorodithioic acid,O.O-dimethyl S-[2(methylamino)-2-oxoethyl] ester.	1.	4	P044	A	10 (4.54)	
3,3'-Dimethoxybenzidine	119904	(1,1'-Biphenyl)-4,4'diamine,3,3'dimethoxy	1.	4	U091	×	1# (0.454)	
Dimethylamine	124403	Methanamine, N-methyl	1000	1,4	U092	С	1000## (454)	
Dimethylaminoazobenzene	60117	Benzenamine, N,N-dimethyl-4-phenylazo	.1*	4	U093	×	1# (0.454)	
7,12-Dimethylbenz[a]anthracene	57976	1,2-Benzanthracene, 7,12-dimethyl	1*	4	U094	x	1# (0.454)	
3,3'-Dimethylbenzidine	119937	(1,1'Biphenyl)-4,4'-diamine,3,3'-dimethyl	1.	4	U095	x	1# (0.454)	
alpha,alpha-Dimethylbenzylhydroperoxide	80159	Hydroperoxide, 1-methyl-1-phenylethyl	1.	4	U096	A	10 (4.54)	
3,3-Dimethyl-1-(methylthio)-2-butanone, O- [(methylamino)carbonyl] oxime.	39196184	Thiofanox	1.	4	P045	В	100 (45.4)	
Dimethylcarbamoyl chloride	79447	Carbamoyl chloride, dimethyl	1*	4	U097	×	1# (0.454)	
1,1-Dimethylhydrazine	57147	Hydrazine, 1,1-dimethyl	1*	4	U098	x	1# (0.454)	
1,2-Dimethylhydrazine	540738	Hydrazine, 1,2-dimethyl	. 1*	4	U099	×	1# (0.454)	
O,O-Dimethyl O-p-nitrophenyl phosphorothioate	298000	Methyl parathion	100	1,4	P071	В	100## (45.4)	
Dimethylnitrosamine	62759	N-Nitrosodimethylamine	. 1*	2,4	P082	×	1# (0.454)	
alpha,alpha-Dimethylphenethylamine	122098	Ethanamine, 1,1-dimethyl-2-phenyl	. 1*	4	P046	D	5000 (2270)	
2,4-Dimethylphenol	105679	Phenol, 2,4-dimethyl	. 1*	2,4	U101	В.	100 (45.4)	
Dimethyl phthalate	131113	1,2-Benzenedicarboxylic acid,dimethyl ester	. 1*	2,4	U102	D	5000 (2270)	
Dimethyl sulfate	77781	Sulfuric acid, dimethyl ester	. 1.	4 .	U103	x	1# (0.454)	
Dinitrobenzene (mixed)	25154545		1000	1		. в	100 (45.4)	
m- o- p-	99650 528290 100254							
4,6-Dinitro-o-cresol and salts	534521	Phenol, 2,4-dinitro-6-methyl-, and salts	. 1*	2,4	P047	A .	10 (4.54)	
4,6-Dinitro-o-cyclohexylphenol	131895	Phenol, 2-cyclohexyl-4,6-dinitro	. 1*	4	P034	В	100 (45.4)	
Dinitrophenol	25550587		. 1000	1		. A	10 (4.54)	
2,5- 2,6-	329715 573568	·					<u>.</u>	
2,4-Dinitrophenol		Phenol, 2,4-dinitro-	. 1000	1,2,4	P048	^	10 (4.54)	
Dinitrotoluene	25321146 610399		. 1000	1,2	ļ	C	1000# (454)	
2,4-Dinitrotoluene	121142	Benzene, 1-methyl-2,4-dinitro-	. 1000	1,2,4	U105	С	1000# (454)	
Dinoseb	88857	Phenol, 2,4-dinitro-6-(1-methylpropyl)		4	P020	С	1000 (454)	
Di-n-octyl phthalate	117840	1,2-Benzenedicarboxylic acid,di-n-octyl ester	. 9*	2,4	U107	D	5000 (2270)	
1,4-Dioxane	123911	1,4-Diethylene dioxide	1*	4	U108	×	1# (0.454)	
DIPHENYLHYDRAZINE			1*	2			••	
1,2-Diphenylhydrazine	122667	Hydrazine, 1,2-diphenyl	1*	2,4	U109	X	1# (0.454)	

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

			<u> </u>	Statutory		Final RQ		
Hazardous Substance	CASRN	Regulatory Synonyms	RO	Code f	RCRA Waste Number	Catego- ry	Pounds(Kg)	
Diphosphoramide, octamethyl	152169	Octamethylpyrophosphoramide	1.	4	P085	В	100 (45.4)	
Dipropylamine	142847	1-Propanamine, N-propyl	1.	4	U110	D	5000 (2270)	
Di-n-propylnitrosamine	621647	N-Nitrosodi-n-propylamine	1.	2,4	U111	x	1# (0.454)	
Diquat			1000	1		С	1000 (454)	
_	2764729							
Disulfoton		O,O-Diethyl S-[2-(ethylthio)ethyl] phosphorodithioate	1	1,4	P039 .	X	1 (0.454)	
2,4-Dithiobiuret	1	Thioimidodicarbonic diamide	1.	4	P049	8	100 (45.4)	
Dithiopyrophosphoric acid, tetraethyl ester	1	Tetraethyldithiopyrophosphate	1.	4	P109	В	100 (45.4)	
Diuron			100	• 1	ļ	В	100 (45.4)	
Dodecylbenzenesulfonic acid	27176870		1000	1		С	1000 (454)	
Endosullan	115297	5-Norbornene-2,3-dimethanol,1,4,5,6,7,7-hexachloro, cyclic sulfite.	,	1,2,4	P050	X	1 (0.454)	
alpha - Endosulfan	959988		1.	2		×	1 (0.454)	
beta - Endosulfan	33213659		. 1*	2		×	1 (0.454)	
ENDOSULFAN AND METABOLITES			1*	2			**	
Endosulfan sulfate	1031078		. 1*	2		×	1 (0.454)	
Endothal!	145733	7-Oxabicyclo[2,2,1]heptane-2,3-dicarboxylic acid	. 1*	4	P088	C	1000 (454)	
Endrin	72208	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,endo-1,4:5,8-dimethanonaphthalene.	1	1,2,4	P051	×	1 (0.454)	
Endrin aldehyde	7421934		. 1*	2		. x	1 (0.454)	
ENDRIN AND METABOLITES			. 1*	2		ļ	••	
Epichlorohydrin	106898	1-Chloro-2,3-epoxypropane Oxirane, 2-(chloromethyl)-	. 1000	1,4	U041	C	1000# (454)	
Ep:nephnne	51434	1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]	. 1°	4	P042	С	1000 (454)	
Ethanal	75070	Acetaldehyde	1000	1,4	U001	С	1000 (454)	
Ethanamine, 1,1-dimethyl-2-phenyl	122098	alpha,alpha-Dimothylphenethylamine	. 10	4	P046	D	5000 (2270)	
Ethanamine, N-ethyl-N-nitroso	55185	N-Nitrosodiethylamine	11	4	U174	×	1# (0.454)	
Ethane, 1,2-dibromo-	106934	Ethylone dibromide	. 1000	1,4	U067	С	1000# (454)	
Ethane, 1,1-dichloro-	75343	1,1-Dichloroethane	. 1*	2,4	U076	С	1000 (454)	
Ethane, 1,2-dichloro-	107062	Ethylidene dichtoride 1,2-Dichtoroethane Ethylene dichtoride	. 6000	1,2,4	U077	D	5000# (2270)	
Ethane, 1,1,1,2,2,2-hexachloro	67721		1.	2,4	U131	x	1# (0.454)	
Ethane, 1,1'-[methylenebis(oxy)]bis(2-cftloro		Bis(2-chloroethoxy) methane		2,4	U024	С	1000 (454)	
Ethane, 1,1'-oxybis-	ĺ	Ethyl ether		4	U117	В	100 (45.4)	
Ethane, 1,1'-oxybis(2-chloro	ı			2,4	U025	x	1# (0.454)	
Ethane, pentachloro-	76017	Pentachiorouthane		4	U184	x	1## (0.454)	
Ethane, 1,1,1,2-tetrachloro-	İ			4	U208	x	1# (0.454)	
Ethane, 1,1,2,2-tetrachloro-	1	1	١.	2,4	U209	x	1# (0.454)	
Ethane, 1,1,2-trichloro-			1	2,4	U227	x	1# (0.454)	
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)	i			1,4	U247	x	1 (0.454)	
	1		l	4	U114	D	5000 (2270)	
1,2-Ethanediylbiscarbamodithioic acid	111546	Ethylenebis(dithiocarbamic acid)						
1,2-Ethanediylbiscarbamodithioic acid	İ			4	U003	D	5000 (2270)	

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

				Statutory	γ	Final RQ		
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Catego- ry	Pounds(Kg)	
Ethanol, 2,2'-{nitrosoimino}bis	1116547	N-Nitrosodiethanolamine	; 1 .	4	U173	· x ·	1# (0.454)	
Ethanone, 1-phenyl-	98862	Acetophenone	į.	4	U004	D	5000 (2270)	
Ethanoyl chloride	75365	Acetyl chloride	5000	1,4	U006	D	5000 (2270)	
Ethenamine, N-methyl-N-nitroso	4549400	N-Nitrosomethylvinylamine	1.	4	P084	x	1# (0.454)	
Ethene, chloro	75014	Vinyl chloride	1*	2,3,4	U043	×	1# (0.454)	
Ethene, 2-chloroethoxy	110758	2-Chloroethyl vinyl ether	1.	2,4	U042	С	1000 (454)	
Ethene, 1,1-dichloro-	75354	1,1-DichloroethyleneVinylidene chloride	5000	1,2,4	U078	D	5000# (2270)	
Etnene, 1,1,2,2-tetrachloro	127184	Tetrachloroethylene	1.	2,4	U210	×	1# (0.454)	
Ethene, trans-1,2-dichloro	156605	1,2-trans-Dichloroethylene	1*	2,4	U079	С	1000 (454)	
Ethion	563122		10	1		A	10## (4.54)	
Ethyl acetate	141786	Acetic acid, ethyl ester	1*	4	U112	D	5000 (2270)	
Ethyl acrylate	140885	2-Propenoic acid, ethyl ester	1*	4	U113	С	1000 (454)	
Ethylbenzene	100414		1000	1,2		С	1000 (454)	
Ethyl carbamate (Urethan)	51796	Carbamic acid, ethyl ester	1*	4	U238	x	1# (0.454)	
Ethyl cyanide	107120	Propanenitrile	1.	4	P101	A	10 (4.54)	
Ethyl 4,4'-dichlorobenzilate	510156	Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)- alpha-hydroxy-, ethyl ester.	1*	4	U038	×	1# (0.454)	
Ethylene dibromide	106934	Ethane, 1,2-dibrorno-	1000	1,4	U067	С	1000# (454)	
Ethylene dichloride	107062	1,2-Dichloroethane Ethane, 1,2-dichloro-	5000	1,2,4	U077	D	5000# (2270)	
Ethylene oxide	75218	Oxirane	1*	4	U115	×	1# (0.454)	
Ethylenebis(dithiocarbamic acid)	111546	1,2-Ethanediylbiscarbamodithioic acid	1.	4	U114	D	5000 (2270)	
Ethylenediamine	107153		1000	1		D	5000 (2270)	
Ethylenediamine tetraacetic acid (EDTA)	60004		5000	1		D	5000 (2270)	
Ethylenethiourea	96457	2-Imidazolidinethione	1*	4	U116	x	1# (0.454)	
Ethylenimine	161564	Aziridine	1*	4	P054	x	1# (0.454)	
Ethyl ether	60297	Ethane, 1,1'-oxybis	1.	.4	U117	В	100 (45.4)	
Ethylidene dichloride	75343 ·	1,1-Dichloroethane	1*	2,4	U076	С	1000 (454)	
Ethyl methacrylate	97632	2-Propenoic acid, 2-methyl-, ethyl ester	1*	4	U118	С	1000 (454)	
Ethyl methanesulfonate	62500	Methanesulfonic acid, ethyl ester	1*	4	U119	x .	1# (0.454)	
Famphur		Phosphorothioic acid, O,O-dimethyl-O-[p-[(dimethylamino)- sulfonyl]phonyl] ester.	1.	4	P097	С	1000 (454)	
Ferric ammonium citrate			1000	1		. С	1000 (454)	
Ferric ammonium oxalate	2944674 55488874		1000	1		. С	1000 (454)	
Ferric chloride	7705080	· ·	1000	1		. С	1000 (454)	
Ferric dextran	9004664	Iron dextran	1.	4	U139	×	1## (0.454)	
Ferric fluoride	7783508		100	1		. В	100 (45.4)	
Ferric nitrate	10421484		1000	1		. с	1000 (454)	
Ferric sulfate	10028225		1000	1		. с	1000 (454)	
Ferrous ammonium sulfate	10045893		1000	1		. с	1000 (454)	
Ferrous chloride	7758943		100	1		В	100 (45.4)	
Ferrous sulfate			1000	1		. с	1000 (454)	
Fluoroacetic acid, sodium salt		Acetic acid, fluoro-, sodium salt	١٠.	4	P058	· A	10 (4.54)	

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Page Page				Statutory		Final RQ		
Pubmine	Hazardous Substance	CASRN	Regulatory Synonyms	RO	Code i	Waste		Pounds(Kg)
Pisonine	Fluoranthene	206440	Benzo[j,k]fluorene	1.	2,4	U120	×	1## (0.454)
Florencectamide	Fluorene	86737		1*	2		Х	1## (0 454)
Formaticity de	Fluorine	7782414		1*	4	P056	A	10 (4.54)
Formic acid. 64186 Mertuny Mulminato 11 4 P065 X 19F 04 Furnacic acid. 110178 Furnacic acid. 110179 Furnacic	Fluoroacetamide	640197	Acetamide, 2-fluoro-	1*	4	P057	В	100 (45 4)
Furnica eack mercury(iii)salt	Formaldehyde	50000	Methylene oxide	1000	1,4	U122	С	1000# (454)
Furan: 660 11078 5000 27 5000	Formic acid	64186	Methanoic acid	5000	1,4	U123	D	5000 (2270)
Furan	Fulminic acid, mercury(II)salt	628864	Mercury fulminate	1.	4	P065	x	1## (0.454)
Furan, totrahydro-	Furnaric acid	110178		5000	1		D	5000 (2270)
2-Furancatroxaldehyde. 38011 Furbral 1000 1.4 U125 D 5000 (22 5-Furancione 100316 Meleic arhydride 5000 1.4 U147 D 5000 (22 5-Furancione 100316 Meleic arhydride 5000 1.4 U147 D 5000 (22 5-Furancione 1000 1.4 U147 D 5000 (22 5-Furancione 1000 1.4 U147 D 5000 (22 5-Furancione 1000 1.4 U148 D 5000 (22 5-Furancione 1000 (22 5-Furancione 1000 1.4 U148 D 5000 (22 5-Furancione 1	Furan	110009	Furturan	1*	4	U124	8	100 (45.4)
2.5-Furandione	Furan, tetrahydro	109999	Tetrahydrofuran	1*	4	U213	С	1000 (454)
Furtural 98011 2-Furancarboxalderhyde 1000 1,4 1125 D 5000 125 D 5000	2-Furancarboxaldehyde	98011	Furfural	1000	1,4	U125	D	5000 (2270)
Furtheran	2,5-Furandione	108316	Maleic anhydride	5000	1,4	U147	D	5000 (2270)
D-Glucopyranose, 2-deary-2-(3-methyl-3-nitrosoureido). 1883864 Steptotototion. 11 4 U206 X 1# (0.4 Glycidylatishyde	Furfural	98011	2-Furancarboxaldehyde	1000	1.4	U125	D	5000 (2270)
Calycidylatishyde	Furturan	110009	Furan	1*	4	U124	В	100 (45.4)
Cushidne, N-nitroson-methyl-N'-nitro-	D-Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)	18883664	Streptozotocin	1.	4	U206	×	1# (0.454)
Cuthion	Glycidylaldehyde	765344	1-Propanal, 2,3-epoxy	1*	4	U126	×	1# (0.454)
HALOETHERS HALOETHERS Heptachtor 78448 4,7-Methano-1H-Indeno,1,4,5,6,7,8,8-heptachtoro- 3a,4,7,7a-tetrahydro- 11 1,2,4 P059 X 1#(0.45 3a,4,7,7a-tetrahydro- 11 1,2,4 P059 X 1#(0.45 3a,4,7,7a-tetrahydro- 11 1,2,4 P059 X 1#(0.45 11 2	Guanidine, N-nitroso-N-methyl-N'-nitro-	70257	N-Methyl-N'-nitro-N-nitrosoguanidine	1.	4	U163	×	1# (0.454)
HALOMETHANES	Guthion	86500		1	1		х	1 (0.454)
Heptachlor 1	HALOETHERS			1.	2			••
Sa, 4, 7, 7a-tetrahydro. 1' 2	HALOMETHANES			1.	2			••
HEPTACHLOR AND METABOLITES 11 2	Heptachlor	76448		1	1,2,4	P059	×	1#(0.454)
Heysachloropoxide	HEPTACHLOR AND METABOLITES	,		1.	2		<u></u>	••
Hexachlorobutadiene		1024573		١.	2		×	1# (0.454)
Hexachlorobutadiene		1 :	Benzene, hexachloro	1.	2,4	U127	x	1# (0.454)
HEXACHLOROCYCLOHEXANE (all isomers)	Hexachlorobutadiene	87683		i	2,4	U128	×	1# (0.454)
Lindane Lind	HEXACHLOROCYCLOHEXANE (all isomers)	608731		١,٠	2		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1,2,3,4,10,10-Hexachtoro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo_endo-1,4:5,8-dimethanonaphthalene. 72208 Endrin 1 1,2,4 P051 X 1 (0 45) 1,2,3,4,10,10-Hexachtoro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo_exo-1,4:5,8-dimethanonaphthalene. 60571 Dieldrin 1 1,2,4 P037 X 1# (0.4 Hexachtoroethane 87721 Ethane, 1,1,1,2,2,2-hexachtoro- 1* 2,4 U131 X 1# (0.4 Hexachtorohexahydro-endo,endo-dimethanonaphthalene 465738 1,2,3,4,10,10-Hexachtoro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo,endo-dimethanonaphthalene 1* 4 P060 X 1 (0.45) 1,2,3,4,10,10-Hexachtoro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo,endo-dimethanonaphthalene 465736 Hexachtorohexahydrg-endo,endo-dimethanonaphthalene 1* 4 P060 X 1 (0.45) 1,2,3,4,10-10-Hexachtoro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo, exo-dimethanonaphthalene 309002 Aldrin 1 1,2,4 P004 X 1# (0.45) 1,4,5,8-endo, exo-dimethanonaphthalene 70304 2,2*-Methylenebis(3,4,6-trichlorophenol) 1* 4 U132 X 1## (0.45) Hexachtoropropene 1888717 1-Propene, 1,1,2,3,3-hexachtoro- 1*	Hexachlorocyclohexane (gamma isomer)	58899		,	1,2,4	U129	×	1# (0.454)
1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,endo-1,4:5,8-dimethanonaphthalene. 72208 Endrin 1 1,2,4 P051 X 1 (0.45) 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,exo-1,4:5,8-dimethanonaphthalene. 60571 Dieldrin 1 1,2,4 P037 X 1# (0.4) Hexachloroethane 67721 Ethane, 1,1,1,2,2,2-hexachloro- 1* 2,4 U131 X 1# (0.4) Hexachlorohexahydro-endo,endo-dimethanonaphthalene 465736 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo,endo-dimethanonaphthalene 1* 4 P060 X 1 (0.45) 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo,endo-dimethanonaphthalene 465736 Hexachlorohexahydrg-endo,endo-dimethanonaphthalene 1* 4 P060 X 1 (0.45) 1,2,3,4,10-10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo,exo-dimethanonaphthalene 309002 Aldrin 1 1,2,4 P004 X 1# (0.45) 1,4,5,8-endo,exo-dimethanonaphthalene 70304 2,2*Methylenebis(3,4,6-trichlorophenol) 1* 4 U132 X 1## (0.45) Hexachloropropene 1888717 1-Propene, 1,1,2,3,3,3-hexachloro- 1*	Hexachlorocyclopentadiene	77474	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro	,	1,2,4	U130	x	1# (0.454)
1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,8,7a,8a-octahydro-endo,exo- 1,4:5,8-dimethanonaphthalene. Hexachloroethane	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-	1		,	1,2,4	P051	×	1 (0 454)
Hexachloroethane '67721 Ethane, 1,1,1,2,2,2-hexachloro- 1' 2,4 U131 X 1# (0.4 Hexachlorohexahydro-endo,endo-dimethanonaphthalene 465738 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo,endo-dimethanonaphthalene 1' 4 P060 X 1 (0.45) 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo,endo-dimethanonaphthalene 1' 4 P060 X 1 (0.45) 1,2,3,4,10-10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo, endo-dimethanonaphthalene 1' 4 P060 X 1 (0.45) 1,2,3,4,10-10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo, exo-dimethanonaphthalene 309002 Aldrin 1 1,2,4 P004 X 1# (0.45) Hexachlorophene 70304 Pexachlorophene 70304 2;2'-Methylenebis(3,4,6-trichlorophenol) 1' 4 U132 X 1## (0.45) Hexachloropropene 1889717 Propene, 1,1,2,3,3,3-hexachloro-1' 1' 4 U243 C 1000 (4.55) 1000 (4.55) Hexaethyl tetraphosphate 757584 Tetraphosphoric acid, hexaethyl ester 1' 4 P062 B 100 (4.55) Hydrazine 302012 Diamine 1' 4 U133 X 1# (0.45)	1,2,3,4,10,10-Hexachioro-6,7-epoxy-1,4,4a,5,6,7,8,8a-	60571	Dieldrin	,	1,2,4	P037	×	1# (0.454)
Hexachlorohexahydro-endo,endo-dimethanonaphthalene	•	67721	Ethane, 1,1,1,2,2,2-hexachioro-	,.	2,4	U131	x	1# (0.454)
1.4,5,8-endo, endo- dimethanonaphthalene. 309002 Aldrin 1 1,2,3,4,10-10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8- endo, exo-dimethanonaphthalene. 1 1,2,4 P004 X 1# (0,4) Hexachlorophene 70304 2,2'-Methylenebis(3,4,6-trichlorophenol) 1' 4 U132 X 1## (0.4) Hexachloropropene 1888717 1-Propene, 1,1,2,3,3,3-hexachloro- 1' 4 U243 C 1000 (4) Hexaethyl tetraphosphate 757584 Tetraphosphoric acid, hexaethyl ester 1' 4 P062 B 100 (4) Hydrazine 302012 Diamine 1' 4 U133 X 1# (0.4)		1	1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-		4	P060	x	1 (0.454)
1,4:5,8- endo, exo-dimethanonaphthalene. 70304 2,2'-Methylenebis(3,4,6-trichlorophenol). 1° 4 U132 X 1## (0.4) Hexachloropropene 1888717 1-Propene, 1,1,2,3,3,3-hexachloro 1° 4 U243 C 1000 (4) Hexaethyl tetraphosphate 757584 Tetraphosphoric acid, hexaethyl ester. 1° 4 P062 B 100 (4) Hydrazine 302012 Diamine 1° 4 U133 X 1# (0.4)		465736	Hexachlorohexahydrg-endo,endo-dimethanonaphthalene	. 1.	4	P060	×	1 (0.454)
Hexachtoropropene 1888717 1-Propene, 1,1,2,3,3,3-hexachtoro- 1° 4 U243 C 1000 (4 Hexaethyl tetraphosphate 757584 Tetraphosphoric acid, hexaethyl ester 1° 4 P062 B 100 (45) Hydrazine 302012 Diamine 1° 4 U133 X 1# (0.4)		309002	Aldrin	1	1,2,4	P004	x	1# (0.454)
Hexachloropropene 1888717 1-Propene, 1,1,2,3,3,3-hexachloro- 1° 4 U243 C 1000 (4 Hexacthyl tetraphosphate 757584 Tetraphosphoric acid, hexaethyl ester 1° 4 P062 B 100 (45) Hydrazine 302012 Diamine 1° 4 U133 X 1# (0.4)	Hexachlorophene	70304	2,2'-Methylenebis(3,4,6-trichlorophenol)	. 1*	4	U132	x	1## (0.454)
Hydrazine 1° 4 U133 X 1# (0.4		l	1-Propene, 1,1,2,3,3,3-hexachloro	. 1.	4	U243	С	1000 (454)
	Hexaethyl tetraphosphate	757584	Tetraphosphoric acid, hexaethyl ester	. 1.	4	P062	В	100 (45.4)
	Hydrazine	302012	Diamine	. 1•	4	U133	×	1# (0.454)
Hydrazine, 1,2-diethyl	Hydrazine, 1,2-diethyl	1615801	N,N'-Diethylhydrazine	. 1.	4	U086 .	x	1# (0.454)
Hydrazine, 1,1-dimethyl	Hydrazine, 1,1-dimethyl	57147	1,1-Dimethylhydrazine	1.	4	U098	×	1# (0.454)

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

				Statutory		Final RQ		
Hazardous Substance	CASRN	Regulatory Synonyma	RQ	Code †	RCRA Waste Number	Catego- ry	Pounds(Kg)	
Hydrazine, 1,2-dimethyl	540738	1,2-Dimethylhydrazine	1*	4	U099	. х	1# (0.454)	
Hydrazine, 1,2-diphenyl	122667	1,2-Diphenylhydrezine	1*	2,4	U109	x	1# (0.454)	
Hydrazine, methyl	60344	Methyl hydrazine	1*	4	P068	λ	10 (4.54)	
Hydrazinecarbothloamide	79196	Thiosemicarbazide	1*	4	P116	B -	100 (45.4)	
Hydrochloric acid	7647010		5000	1		D	5000 (2270)	
Hydrocyanic acid	74908	Hydrogen cyanide	10	1,4	P063	A	10 (4.54)	
Hydrofluoric acid	7664393	Hydrogen fluoride	5000	1,4	U134	В	100 (45.4)	
Hydrogen cyanide	74908	Hydrocyanic acid	10	1,4	P063	A	. 10 (4.54)	
Hydrogen fluoride	7664393	Hydrofluoric scid	5000	1,4	U134	8	100 (45.4)	
Hydrogen phosphide	7803512	Phosphine	1*	4	P096	В	100 (45.4)	
Hydrogen sulfide	7783064	Hydrosulfuric acid	100	1,4	U135	В	100## (45.4)	
		Sulfur hydride						
Hydroperoxide, 1-methyl-1-phenylethyl		alpha,alpha-Dimethylbenzylhydroperoxide	1'	4	U096	A .	10 (4.54)	
Hydrosulfuric acid	7783064	Hydrogen sulfide Sulfur hydride	100	1,4	U135	8	100## (45.4)	
Hydroxydimethylarsine oxide	75605	Cacodylic acid	1*	4	U136	×	1# (0.454)	
2-Imidazolidinethione	96457	Ethylenethiourea	1.	4	U116	x	1# (0.454)	
Indeno(1,2,3-cd)pyrene	193395	1,10-(1,2-Phenylene)pyrene	1.	2,4	U137	x	1# (0.454)	
Iron dextran	9004664	Ferric dextran	1.	4	U139	x	1## (0.454)	
Isobutyl alcohol	78831	1-Propanol, 2-methyl	1.	4	U140	. D	5000 (2270)	
Isocyanic acid, methyl ester	624839	Methyl isocyanate	1*	4	P064	×	1###(0.454)	
tsophorone	78591		1"	2		ū	5000 (2270)	
Isoprene	78795		1000	1	ļ	С	1000## (454)	
Isopropanolamine dodecylbenzenesulfonate	42504461		1000	1	ļ	С	1000 (454)	
isosafrole	120581	Benzene, 1,2-methylenedioxy-4-propenyl	1*	4	U141	×	1# (0.454)	
3(2H)-Isoxazolone, 5-(aminomethyl)	2763964	5-(Antinomethyl)-3-isoxazolol	11 .	4	, P007	С	1000 (454)	
Kelthane	115322		5000	١,		A .	10 (4.54)	
Kcpone	143500	Decachiorooctahydro-1,3,4-metheno-2H-cyclobuta[c,d]- pentalen-2-one.	1	1,4	U142	×	1# (0.454)	
Lasiocarpine	303344		1*	4	U143	x	1# (0.454)	
Lead ††	7439921		1*	2		×	1## (0.454)	
Lead acetate	301042	Acetic acid, lead salt	5000	1,4	U144	D	5000# (2270)	
LEAD AND COMPOUNDS		_	1.	2			••	
Lead arsenate	7784409 7645252 10102484		5000	,		D	5000# (2270)	
Lead chloride	7758954		5000	1		D	5000## (2270)	
Lead fluoborate	13814965		5000	1		D	5000## (2270)	
Lead fluoride	7783462	·	1000	1		. с	1000## (454)	
Lead iodide	10101630		5000	1		D	5000## (2270)	
Lead nitrate	10099748		5000	1		. D	5000## (2270)	
Lead phosphate	7446277	Phosphoric acid, lead salt	. 1.	4	U145	×	1# (0.454)	
Lead stearate	7428480	,	5000	1		. 0	5000## (2270)	
	1072351 56189094 52652592							
t ead subacetate	1335326		1.	4	U146	x	1# (0.454)	

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

				Statutory	,		Final RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code f	RCRA Waste Number	Catego- ry	Pounds(Kg)
Lead sultate			5000	1		۵	5000## (2270)
Lead sulfide	1314870		5000	1 ,		D	5000## (2270)
Lead thiocyanate	592870		5000	1		Ð	5000## (2270)
Lindane	58899	gamma - BHC Hexachlorocyclohexane (gamma isomer)	1	1,2,4	U129	×	1# (0.454)
Lithium chromate	14307358		1000	1		C	1000# (454)
Malathion	121755		10	1		В	100 (45.4)
Maleic acid	110167		5000	1		D	5000 (2270)
Maleic anhydride	108316	2,5-Furandione	5000	1,4	U147	D	5000 (2270)
Mateic hydrazide	123331	1,2-Dihydro-3,6-pyridazinedione	۱۰	4	U148	D	5000 (2270)
Malononitrile	109773	Propanedinitrile	1.	4	U149	C	1000 (454)
Melphalan	148823	Alanine, 3-[p-bis(2-chloroethyl)amino]phenyl-,L	1.	4	U150	х	1# (0.454)
Mercaptodimethur	2032657		100	1		A	10 (4.54)
Mercuric cyanide	592041		. 1	1		x	1 (0.454)
Mercuric nitrate	10045940		. 10	1		A	10## (4.54)
Mercuric sulfate	7782359		10	1		Α	10## (4.54)
Mercuric thiocyanate	592858		. 10	1	• • • • • • • • • • • • • • • • • • • •	Α	10## (4.54)
Mercurous nitrate	10415755 7782867		. 10	1		٨	10## (4.54)
Mercury	ĺ		١,٠	2,3,4	U151	x	1 (0.454)
MERCURY AND COMPOUNDS			,.	2		***************************************	
Mercury, (acetato-O)phenyl]	Phenylmercuric acetate	1.	4	P092	×	1##(0.454)
Mercury fulminate	İ	Fulminic acid, mercury(II)salt] ,.	4	P065	×	1## (0.454)
Methacrylonitrile	1	2-Propenenitrile, 2-methyl] ,.	4	U152	С	1000 (454)
Methanamine, N-methyl	124403	Dimethylamine	1000	1,4	U092	С	1000## (454)
Methane, bromo-	74839	Methyl bromide	1.	2,4	U029	С	1000 (454)
Methane, chloro	74873	Methyl chloride	1.	2,4	U045	х	1## (0.454)
Methane, chloromethoxy-	107302	Chloromethyl methyl ether	. 10	4	U046	x	1# (0.454)
Methane, dibromo	74953	Methylene bromide	. 10	4	U068	С	1000 (454)
Methane, dichloro	75092	Methylene chloride	,.	2,4	U080	С	1000 (454)
Methane, dichlorodifluoro-	75718	Dichlorodifluoromethane	.] ,.	4	U075	D	5000 (2270)
Methane, iodo-	74884	Methyl iodide	. 10	4	U138	×	1# (0.454)
Methane, oxybis(chloro	542881	Bis(chloromethyi) ether	. 1*	4	P016	×	1# (0.454)
Methane, tetrachloro	56235	Carbon tetrachloride	5000	1,2,4	U211	D	5000# (2270)
Methane, tetranitro-	509148	Tetranitromethane	1.	4	P112	A	10 (4.54)
Methane, tribromo-	75252	Bromoform	. 1*	2,4	U225	В	100 (45.4)
Methane, trichloro	67663	Ch!aroform	5000	1,2,4	U044	D	5000# (2270)
Methane, trichlorofluoro	75694	Trichloromonofluoromethane	. 1*	4	U121	D	5000 (2270)
Methanesulfonic acid, ethyl ester	62500	Ethyl methanesulfonate	. 1*	4	U119	×	1# (0.454)
Methanethiol	74931	Methylmercaptan Thiomethanol	. 100	1,4	U153	В	100 (45.4)
Methanesuffenyl chloride, trichloro-	594423	Trichloromethanesulfenyl chloride	. 1*	4.	P118	В	100 (45.4)
4,7-Methano-1H-indene,1,4,5,6,7,8,8-heptachloro- 3a,4,7,7a-tetrahydro	76448	Heptachlor	. 1	1,2,4	P059	×	1# (0.454)
Methanoic acid	64186	Formic acid	. 5000	1,4	U123	D	5000 (2270)

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

				Statutory			Final RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Catego- ry	Pounds(Kg)
4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro- 3a,4,7,7a-tetrahydro	57749	Chlordane	1	1,2,4	U036	x	1# (0.454)
Methanol	67561	Methyl alcohol	1*	4	U154	D	5000 (2270)
Methapyrilene:	91805	Pyridine, 2-{(2-(dimethylamino)ethyl)-2-thenylamino]	1*	4	U155	D	5000 (2270)
Methornyl	16752775	Acetimidic acid, N-[(methylcarbamoyl)oxy]thio-, methyl ester.	1*	4	P066	В	100 (45.4)
Methoxychlor	72435	Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)	1	1,4	U247	х	1 (0.454)
Methyl alcohol	67561	Methanol	1.	4	U154	D	5000 (2270)
2-Methylaziridine	75558	1,2-Propylenimine	1*	4	P067	х	1# (0.454)
Methyl bromide	74839	Methane, bromo-	1*	2,4	U029	С	1000 (454)
1-Methylbutadiene	504609	1,3-Pentadiene	1*	4	U186	В	100 (45.4)
Methyl chloride	74873	Methane, chloro	1*	2,4	U045	х	1## (0.454)
Methyl chlorocarbonate	79221	Carbonochloridic acid, methyl ester	1*	4	U156	С	1000 (454)
Methyl chloroform	71556	1,1,1-Trichioroethane	1*	2,4	U226	С	1000 (454)
4,4'-Methylenebis(2-chloroaniline)	101144	Benzenamine, 4,4'-methylenebis(2-chloro	1*	4	U158	×	1# (0.454)
2,2'-Methylenebis(3,4,6-trichlorophenol)	70304	Hexachlorophene	1.	4	U132	х	1## (0.454)
3-Methylcholanthrene	56495	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl	1.	4	U157	x	1# (0.454)
Methylene bromide	74953	Methane, dibromo	1.	4	U068	С	1000 (454)
Methylene chloride	75092	Methane, dichtoro	. 10	2,4	U080	С	1000 (454)
Methylene oxide	50000	Formaldehyde	1000	1,4	U122	С	1000# (454)
Methyl ethyl ketone	78933	2-Butanone	1.	4	U159	D	5000 (2270)
Methyl ethyl ketone peroxide	1338234	2-Butanone peroxide	. 10	4	U160	A	10 (4.54)
Methyl hydrazine	60344	Hydrazine, methyl	1.	4	P068	A	10 (4.54)
Methyl iodide	74884	Methane, iodo-	. ,.	4	U138	х	1# (0.454)
Methyl isobutyl ketone	108101	4-Methyl-2-pentanone	. ,.	4	U161	D	5000 (2270)
Methyl isocyanate	ì	Isocyanic acid, methyl ester		4	P064	х	1###(0.454)
2-Methyllactonitrile	}	Acetone cyanohydrin	. 10	1,4	P069	A	10 (4.54)
·		Propanenitrile, 2-hydroxy-2-methyl-	. 100	1,4	U153	В	100 (45.4)
Methylmercaptan	/4931	Methanethiol		,,,	0.00		100 ()
Methyl methacrylate	80626	2-Propenoic acid, 2-methyl-, methyl ester	5000	1,4	U162	С	1000 (454)
N-Methyl-N'-nitro-N-nitrosoguanidine	70257	Guanidine, N-nitroso-N-methyl-N'-nitro	1.	4	U163	×	1# (0.454)
Methyl perathion	298000	O,O-Dimethyl O-p-nitrophenyl phosphorothioate	. 100	1,4	P071	8	100## (45.4)
4-Methyl-2-pentanone	108101	Methyl isobutyl ketone	. 1*	4	U161	D	5000 (2270)
Methylthiouracil	56042	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo	1*	4	U164	x	1# (0.454)
Mevinphos	7786347		. 1	1		. A	10 (4.54)
Mexacarbate	315184		. 1000	1	ļ	с	1000 (454)
Mitomycin C	50077	Azirino(2',3':3,4)pyrrolo(1,2-a)indole-4,7-dione,6-amino-8- [((aminocarbonyl)oxy)methyl]- 1,1a,2,8,8a,8b- hexahy- dro-8a-methoxy- 5-methyl	1*	4	U010	×	1# (0.454)
Monoethylamine	75047		1000	1		. с	1000## (454)
Monomethylamine	74895		1000	1		В	100 (45.4)
Naled	300765		10	1		🐧	10 (4.54)
5,12-Naphthacenedione, (8S-cis)-8-acetyl-10-[3-amino- 2,3,6-trideoxy-alpha-L- łyxo-hexopyranosyl)oxyl- 7,8,9,10-tetrahydro- 6,8,11-trihydroxy- 1-methoxy	20830813	Daunomycin	1•	4	U059	×	1# (0.454)
Naphthalene	91203		5000	1,2,4	U185	B .	100 (45.4)

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

			<u> </u>	Statutory			Final RQ
Hazardous Substance	CASRN	Regulatory Synonyms .	RQ	Code †	RCRA Waste Number	Catego- ry	Pounds(Kg)
Naphthalene, 2-chloro	91587	beta-Chloronaphthaleno2-Chloronaphthalene	1*	2,4	U047	D	5000 (2270)
1,4-Naphthalenedione	130154	1,4-Naphthoquinone	11	4	U166	D	5000 (2270)
2,7-Naphthalenedisulfonic acid,3,3'-[(3,3'-dimethyl- (I,1'-biphenyl)-4,4'-diyf)- bis(azo)]bis(5-amino- 4-hydroxy)-tetrasodium salt.	72571	Trypan blue	1*	4	U236	x	1# (0.454)
Naphthenic acid	1338245		100	1		В	100 (45.4)
1,4-Naphthoquinone	130154	1,4-Naphthalenedione	1.	4	U166	D	5000 (2270)
1-Naphthylamine	134327	alpha-Naphthylamine	1.	4	U167	x	1# (0.454)
2-Naphthylamine	91598	beta-Naphthylamine	1.	4	U168	x	1# (0.454)
elpha-Naphthylamine	134327	1-Naphthylamine	1.	4	U167	×	1# (0.454)
beta-Naphthylamine	91598	2-Naphthylamine	1.	4	U168	×	1# (0.454)
2-Naphthylamine, N,N-bis(2-chloroethyl)	494031	Chlornaphazine	1.	4	U026	x	1# (0.454)
alpha-Naphthylthiourea	86884	Thiourea, 1-naphthalenyl	1.	4	P072	В	100 (45.4)
Nicket ††	· I		,.	2	ļ 	x	1# (0.454)
NICKEL AND COMPOUNDS			1.	2			••
Nickel ammonium sulfate	15699180		5000	,		ם	5000# (2270)
Nickel carbonyt	13463393	Níckel tetracarbonyl	۱.	4	P073	x	1# (0.454)
Nickel chloride	7718549		5000	1		D	5000# (2270)
	37211055		İ				
Nickel cyanide	557197	Nickel(II) cyanide	1.	4	P074	×	1# (0.454)
Nickel(II) cyanide	557197	Nickel cyanide	1*	4	P074	×	1# (0.454)
Nickel hydroxide	12054487		1000	1		С	1000# (454)
Nickeł nitrate	14216752		5000	1	ļ	ם	5000# (2270)
Nickel sulfate	7786814		5000	1		D	5000# (2270)
Nickel tetracarbonyl	13463393	Nickel carbonyl	. 1*	4	P073	×	1# (0.454)
Nicotine and salts	54115	Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-, and salts	. 1*	4	P075	В	100 (45.4)
Nitric acid	7697372		1000	1		С	1000 (454)
Nitric oxide	10102439	Nitrogen(II) oxide	. 1*	4	P076	A .	10 (4.54)
p-Nitroaniline	100016	Benzenamine, 4-nitro-	. 1*	4	P077	Q	5000 (2270)
Nitrobenzene	98953	Benzene, nitro	. 1000	1,2,4	U169	C	1000 (454)
Nitrogen dioxide	10102440	Nitrogen(IV) oxide	. 1000	1,4	P078	^	10 (4.54)
Nitrogen(II) oxide		Nitric oxide		4	P076	 A	10 (4.54)
Nitrogen(IV) oxide		Nitrogen dioxide	1000	1,4	P078	A	10 (4.54)
	10544726						
Nitroglycerine	55630	1,2,3-Propanetriol, trinitrate	1"	4	P081	^	10 (4.54)
Nitrophenol (mixed)	25154558 554847		1000	1		В	100 (45.4)
o- p-	88755 100027	2-Nitrophenol 4-Nitrophenol Phenol, 4-nitro-					
p-Nitrophenol	100027	4-NitrophenolPhenol, 4-nitro-	. 1000	1,2,4	U170	В	100 (45.4)
2-Nitrophenol	88755	o-Nitrophenol	. 1000	1,2		. 8	100 (45.4)
4-Nitrophenol	100027	p-NitrophenolPhenol, 4-nitro-	1000	1,2,4	U170	8	100 (45.4)
NITROPHENOLS		Priority 47mag		2			••
2-Nitropropane	-] ,.	4	U171	×	1# (0.454)
NITROSAMINES	1		1.	2			••

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

				Statutory			Final RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Catego- ry	Pounds(Kg)
N-Nitrosodi-n-butylamine	924163	1-Butanamine, N-butyl-N-nitroso	_ 1.	4	U172	x	1# (0.454)
N-Nitrosodiethanolamine	1116547	Ethanol, 2,2'-(nitrosoimino)bis	. 1*	4 .	U173	x	1# (0.454)
N-Nitrosodiethylamine	55185	Ethanamine, N-ethyl-N-nitroso	1.	4	U174	x	1# (0.454)
N-Nitrosodimethylamine	62759	Dimethylnitrosamine	,.	2,4	P082	x	1# (0.454)
N-Nitrosodiphenylamine	86306		1.	2		В	100 (45.4)
N-Nitrosodi-n-propylamine	621647	Di-n-propylnitrosamine	1.	2,4	U111	х	1# (0.454)
N-Nitroso-N-ethylurea	759739	Carbamide, N-ethyl-N-nitroso	1.	4	U176	х	1# (0.454)
N-Nitroso-N-methylurea	684935	Carbamide, N-methyl-N-nitroso	1.	4	U177	×	1# (0.454)
N-Nitroso-N-methylurethane	615532	Carba:nic acid, methylnitroso-,ethyl ester	1* ,	4	U178	х	1# (0.454)
N-Nitrosomethylvinylamine	4549400	Ethenamine, N-methyl-N-nitroso	1*	4	P084	x	1# (0.454)
N-Nitrosopiperidine	100754	Pyridine, hexahydro-N-nitroso	1*	4	U179	x	1# (0.454)
N-Nitrosopyrrolidine	930552	Pyrrole, tetrahydro-N-nitroso	1.	4	U180	x	1# (0.454)
Nitrotoluene	1321126		1000	1		С	1000 (454)
m- o-	99081 88722						
P -	99990						4# (0.454)
5-Nitro-o-toluidine	. 99558	Benzenamine, 2-methyl-5-nitro-	1*	4	U181	X	1# (0.454)
5-Norbornene-2,3-dimethanol,1,4,5,6,7,7-hexachloro, cyclic sulfite.	115297	Endosulfan	1	1,2,4	P050	X .	1 (0.454)
Octamethylpyrophosphoramide	152169	Diphosphoramide, octamethyl	1,	4	P085	В	100 (45.4)
Osmium oxide	. 20816120	Osmium tetroxide	1"	4	P087	С	1000 (454)
Osmium tetroxide	. 20816120	Osmium oxide	1*	4	P087	C	1000 (454)
7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid	145733	Endothall	1"	4	P088	С	1000 (454)
1,2-Oxathiolane, 2,2-dioxide	1120714	1,3-Propane sultone	1.	4	U193	×	1# (0.454)
2H-1,3,2-Oxazaphosphorine,2-{bis(2-chloroethyl)amino] tetrahydro-2-oxide.	50180	Cyclophosphamide	1.	4	U058	x	1# (0.454)
Oxirane	. 75218	Ethyleneoxide	1.	4	U115	×	1# (0.454)
Oxirane, 2-(chloromethyl)-	. 106898	1-Chloro-2,3-epoxypropane Epichlorohydrin	1000	1,4	U041	С	1000# (454)
Paraformaldehyde	30525894		1000	1		. с	1000 (454)
Paraldehyde	123637	1,3,5-Trioxane, 2,4,6-trimethyl	1.	4	U182	С	1000 (454)
Parathion	56382	Phosphorothioic acid,O,O-diethyl O-(p-nitrophenyl) ester	1	1,4	P089	X	1# (0.454)
Pentachlorobenzene	608935	Benzene, pentachloro	1.	. 4	U183	x	1## (0.454)
Pentachloroethane	76017	Ethane, pentachloro	1.	4	U184	×	1## (0.454)
Pentachloronitrobenzene	82688	Benzene, pentachloronitro	. 1*	4	U185	X	1# (0.454)
Pentachlorophenol	87865	Phenol, pentachloro-	10	1,2,4	U242	A	10# (4.54)
1,3-Pentadiene	504609	1-Methylbutadiene	1*	4	U186	. в	100 (45.4)
Phenacetin	62442	Acetamide, N-(4-ethoxyphenyl)	. 1°	4	U187	•x	1# (0.454)
Phenanthrene	85018		۱۰	2	ļ	. ×	1## (0.454)
Phenol	108952	Benzene, hydroxy-	1000	1,2,4	U188	С	1000## (454)
Phenoi, 2-chloro	95578	2-Chlorophenolo-Chlorophenol	1'	2,4	U048	В	100 (45.4)
Phenol, 4-chloro-3-methyl	59507	4-Chloro-m-cresol	1.	2,4	U039	D	5000 (2270)
Phenol, 2-cyclohexyl-4,6-dinitro	131895	4,6-Dinitro-o-cyclohexylphenol	1"	4	P034	В	100 (45.4)
Phenol, 2,4-dichloro-	120832	2,4-Dichlorophenol	. 1*	2,4	U081	В	100 (45.4)
Phenoi, 2,6-dichloro-	87650	2,6-Dichlorophenol	1.	4	U082	В	100 (45.4)
Phenol, 2,4-dimethyl	105679	2,4-Dimethylphenol	1*	2,4	U101	В	100 (45.4)

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

				Statutory	r		Final RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Catego- ry	Pounds(Kg)
Phenol, 2,4-dinitro-	51285	2,4-Dinitrophenol	1000	1,2,4	P048	· A	10 (4.54)
Phenol, 2,4-dinitro-6-(1-methylpropyl)	68857	Dinoseb	1*	4	P020	. с	1000 (454)
Phenol, 2,4-dinitro-6-methyl-, and salts	534521	4,6-Dinitro-o-cresol and salts	1*	2,4	P047	A	10 (4.54)
Phenol, 4-nitro	100027	ρ-Nitrophenol	1000	1,2,4	U170	В	100 (45.4)
		4-Nitraphenal					
Phenoi, pentachloro	87865	Pentachlorophenol	10	1,2,4	U242	A .	10# (4.54)
Phenol, 2,3,4,6-tetrachloro	58902	2,3,4,6-Tetrachlorophenol	1.	4	U212	A	10 (4.54)
Phenol, 2,4,5-trichloro	95954	2,4,5-Trichlorophenol	10	1,4	U230	A	10# (4.54)
Phenol, 2,4,6-trichloro	88062	2,4,6-Trichlorophenol	10	1,2,4	U231	A	10# (4.54)
Phenol, 2,4,6-trinitro-, ammonium salt	131748	Ammon'um picrate	1*	4	P009	A	10 (4.54)
Phenyl dichloroarsine	696286	Dichlorophenylarsine	1*	4	P036	×	1# (0.454)
1,10-(1,2-Phenylene)pyreno	193395	Indono(1,2,3-cd)pyrene	1*	2,4	U137	X	1# (0.454)
Phenylmercuric acetate	62384	Mcrcury, (acetato-O)phenyl	1*	4	P092	X	1## (0.454)
N-Phenylthiourea	103855	Thiourea, phenyl	1"	4	P093	В	100 (45.4)
Phorate	29 8022	Phosphorodithioic acid, O,O-diethyl S-(ethylthio), mothyl ester.	1°	4	P094	×	1## (0.454)
Phosgene	75445	Carbonyl chloride	5000	1,4	P095	A	10 (4.54)
Phosphine	7803512	Hydrogan phosphide	1*	4	P096	В	100 (45.4)
Phosphoric acid	7664382		5000	1	ļ 	D	5000 (2270)
Phosphoric acid,diethyl p-nitrophenyl eater	311455	Diothyl-p-nitrophenyl phosphate	1*	4	P041	В	100 (45.4)
Phosphoric acid, lead salt	7446277	Lead phosphate	1*	4	U145	x	1# (0:454)
Phosphorodithiolc acid, O,O-diethyl S-methylester	3288582	O,O-Diethyi S-methyl dithiophosphate	1.	4	U087	D	5000 (2270)
Phosphorodithioic acid, O.O-diethyl S-(ethylthio), methyl ester.	298022	Phorato	1.	4	P094	×	1## (0.454)
Phosphorodithioic acid,O,O-dimethyl S-[2(methylamino)-2-oxoethyl] ester.	60515	Dirnethoate	1.	4	P044	A	10 (4.54)
Phosphorofluoridic acid.bis(1-mothylethyl) eater	55914	Diisopropyl fluorophosphate	1.	4	P043	В	100 (45.4)
Phosphorothioic acid,O,O-diethyl O-(p-nitrophenyl) ester	56382	Parathion	1	1,4	P089	×	1# (0.454)
Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester	297972	O,O-Diethyl O-pyrazinyl phosphorothioate	1.	4	P040	В	100 (45.4)
Phosphorothioic acid, O,O-dimethyl O-[p-[(dimethylamino)-sulfonyl]phenyl] ester.	52857	Famphur	1;	4	P097	С	1000 (454)
Phosphorus	7723140		1	1		. x	1 (0.454)
Phosphorus oxychloride	10025873		5000	,		. с	1000 (454)
Phosphorus pentasulfide	1314803	Phosphorus sulfide	100	1,4	U189	В	100 (45.4)
Phosphorus sulfide	1314803	Phosphorus pentasulfide	100	1,4	U169	В	100 (45.4)
Phosphorus trichloride	7719122		5000	1		. c	1000 (454)
PHTHALATE ESTERS			1.	2			
Phthalic anhydride	85449	1,2-Bonzenedicarboxylic acid anhydride	1.	4	U190	a	5000 (2270)
2-Picoline	ļ	Pyridine,2-methyl]	4	U191	a	5000 (2270)
Plumbane, tetraethyl-	•	Tetraethyl lead	. 100	1,4	P110	В	100## (45.4)
POLYCHLORINATED BIPHENYLS (PCBs)	12674112 11104282 11141165 53469219 12672296		10	1,2		. A	10# (4.54)
POLYNUCLEAR AROMATIC HYDROCARBONS	11097691 11096825		. 1.	2			

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

· · · · · · · · · · · · · · · · · · ·	1			S4-4-4			Sinci DO
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Statutory Code †	RCRA Waste Number	Catego-	Final RQ Pounds(Kg)
Potencium amanata	7704440		4000			С	4000# (454)
Potassium arsenate	7784410		1000	1	}		1000# (454)
Potassium arsenite	10124502	·	1000	1	ļ	C.	1000# (454)
Potassium bichromate	7778509		1000	1		С	1000# (454)
Potassium chromate	7789006		1000	1		С	1000# (454)
Potassium cyanide	151508		10	1,4	P098	Α.	10 (4.54)
Potassium hydroxide	1310583		1000	1.	ļ	С	1000 (454)
Potassium permanganate	7722647	,	100	1	ļ	В	100 (45.4)
Potassium silver cyanide	. 506616	•	1*	4	P099	x	1 (0.454)
Pronamide	. 23950585	3,5-Dichloro-N-(1,1-dimethyl-2-propynyl)benzamide	1*	4.	U192	Q	5000 (2270)
1-Propanal, 2,3-epoxy	765344	Glycidylaldehyde	1*	4	U126	×	1# (0.454)
Propanal, 2-methyl-2-(methylthio)-,O-[(methylamino) carbonyl]oxime.	116063	Aldicarb	1• -	4	P070	x	1 (0.454)
1-Propanamine	. 107108	n-Propylamine	1*	4	U194	D	5000 (2270)
1-Propanamine, N-propyl	142847	Dipropylamine	1*	4	U110	D.	5000 (2270)
Propane, 1,2-dibromo-3-chloro	. 96128	1,2-Dibromo-3-chloropropane	1.	4	U066	×	1# (0.454)
Propane, 2-nitro-	79469	2-Nitropropane	1.	4	U171	×	1# (0.454)
Propane, 2,2'-oxybis(2-chloro	108601	Bis(2-chlorolsopropyl) ether	۱۰.	2,4	U027	c	1000 (454)
1.3-Propane sultone		1,2-Oxathiolane, 2,2-dioxide	١,٠	4	U193	×	1# (0.454)
Propanedinitrile	109773	Malononitrile	1.	4	U149	С	1000 (4.54)
Propanenitrile	107120	Ethyl cyanide	,.	4	P101	A	10 (4.54)
Propanenitrile, 3-chloro-	542767	3-Chloropropionitrile	1.	4	P027	c	1000 (454)
Propanenitrile, 2-hydroxy-2-methyl		Acetone cyanohydrin.	10	1.4	P069		10 (4.54)
riopatorium, E tryutoxy-E-titouty-	73003	2-Methyllactonitrile		,,-	1003	\	10 (4.54)
1,2,3-Propanetriol, trinitrate-	55630	Nitroglycerine	1*	4	P081	A	10 (4.54)
1-Propanol, 2,3-dibromo-, phosphate (3:1)	126727	Tris(2,3-dibromopropyl) phosphate	1*	4	U235	×	1# (0.454)
1-Propanol, 2-methyl	78831	Isobutyl alcohol	1.	4	U140	D	5000 (2270)
2-Propanone	67641	Acetone	1*	4	U002	۵	5000 (2270)
2-Propanone, 1-bromo	598312	Bromoacetone	1.	4	P017	С	1000 (454)
Propargite	2312358		10	1			10 (4.54)
Propargyl alcohol	107197	2-Propyn-1-ol	1.	4	P102	С	1000 (454)
2-Propenal	107028	Acrolein	,	1,2,4	P003	x	1 (0.454)
2-Propenamide	1	Acrylamide	1.	4	U007	D	5000 (2270)
Propene, 1,3-dichloro		1,3-Dichloropropene	5000	1,2,4	U084	D	5000## (2270)
1-Propene, 1,1,2,3,3,3-hexachloro	1888717	Hexachloropropene	1.	4	U243	С	1000 (454)
2-Propenenitrile		Acrylonitrile		1,2,4	U009	В	100# (45.4)
2-Propenenitrile, 2-methyl-		Methacrytonitrile	1.	4	U152	c	1000 (454)
2-Propenoic acid	i	Acrylic acid	1.		U008	D	5000 (2270)
2-Propenoic acid, ethyl ester		Ethyl acrylate] ,.	4	U113	C	1000 (454)
2-Propenoic acid, 2-methyl-, ethyl ester] ,.	4	U118	c	1000 (454)
2-Propenoic acid, 2-methyl-, methyl ester		Methyl methacrylate	5000	1,4	U182	C	1000 (454)
2-Propen-1-ol.	1	Allyl alcohol	100	1,4	P005	В	100 (45.4)
Propionic acid	Į.	Any acorol	5000		- 7003	٥	5000 (2270)
Propionic acid, 2-(2.4,5-trichlorophenoxy)		Silvex	100	1,4	U233	В	100 (45.4)
		2,4,5-TP acid					
Propionic anhydride	123626		5000	1		. D	5000 (2270)

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

	1	Regulatory Synonyme	<u> </u>	Statutory		Final RQ		
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Catego- ry	Pounds(Kg)	
n-Propylamine	107108	1-Propanamine	1.	4	U194	D	5000 (2270)	
Propylene dichloride	78875	1,2-Dichtoropropane	5000	1,2,4	U083	С	1000 (454)	
Propylene oxide	75569		5000	1		В	100 (45.4)	
1,2-Propylenimine	75558	2-Methylaziridine	1*	4	P067	x	1# (0.454)	
2-Propyn-1-of	107197	Propargyl alcohol	1.	4	P102	С	1000 (454)	
Pyrene	129000		1.	2		x	1## (0.454)	
Pyrethrins		•	1000	,		x	1 (0.454)	
	121211 8003347							
4-Pyridinamine	504245	4-Aminopyridine	1.	4	P008	С	1000 (454)	
Pyridine	110861		1.	4	U196	x	1## (0.454)	
Pyridine, 2-[(2-(dimethylamino)ethyl)-2-thenylamino]	91805	Methapyrilene	1.	4	U155	D	5000 (2270)	
Pyridine, hexahydro-N-nitroso	100754	N-Nitrosopiperidine	1.	4	U179	x	1# (0.454)	
Pyridine,2-methyl	109068	2-Picoline	1.	4	U191	D	5000 (2270)	
Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-, and salts	54115	Nicotine and salts	1.	4	P075	В	100 (45.4)	
4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo	56042	Methylthiouracil	1.	4	U164	x	1# (0.454)	
Pyrophosphoric acid, tetraethyl ester	107493	Tetraethyl pyrophosphate	100	1,4	P111	В	100## (45.4)	
Pyrrole, tetrahydro-N-nitroso	930552	N-Nitrosopyrrolidine	1.	4	U180	x	1§ (0.454)	
Quinoline	91225		1000	1		D	5000 (2270)	
RADIONUCLIDES			۱,۰	3		x	1§ (0.454)	
Reserpine		Yohimban-16-carboxylic acid,11,17-dimethoxy-18- [(3,4,5- trimethoxybenzoyl)oxy]-, methyl ester.	1*	4	U200	D	5000 (2270)	
Resorcinol	108463	1,3-Benzenediot	1000	1,4	U201	۵	5000 (2270)	
Saccharin and salts	81072	1,2-Benzisothiazolin-3-one,1,1-dioxide, and satts	1.	4	U202	x	1# (0.454)	
Safrole	94597	Benzene, 1,2-methylenedioxy-4-allyl	1.	4	U203	x	1# (0.454)	
Selenious acid	7783008		1.	4	U204	x	1## (0.454)	
Selenium ††	7782492		1.	2	ļ	x	1## (0.454)	
SELENIUM AND COMPOUNDS			1.	2			••	
Selenium dioxide	7446084	Selenium oxide	1000	1,4	U204	С	1000## (454)	
Selenium disulfide	7488564	Sulfur setenide	11	4	U205	x	1# (0.454)	
Selenium oxide	7446084	Selenium dioxide	1000	1,4	U204	С	1000## (454)	
Selenourea	630104	Carbamimidoselenoic acid	1.	4	P103	х	1## (0.454)	
L-Serine, diazoacetate (ester)	115026	Azaserine	1.	4	U015	x	1# (0.454)	
Silver ††	7440224		1*	2		Ç.	1000 (454)	
SILVER AND COMPOUNDS			1.	2		************	••	
Silver cyanide	506649	-	1.	4	P104	x .	1 (0.454)	
Silver nitrate	7761888		,	,	***************************************	x	1 (0.454)	
Silvex	93721	Propionic acid, 2-(2,4,5-trichlorophenoxy)2,4,5-TP acid	100	1,4	U233	В	100 (45.4)	
Sodium	7440235		1000	,		A	10 (4.54)	
Sodium arsenate	7631892		1000	1		С	1000# (454)	
Sodium arsenite	7784465		1000			C	1000# (454)	
Sodium azide,	26628228		. 1*		P105	C	1000 (454)	
Sodium bichromate	10588019		1000	,		c	1000 (454)	
Sodium bifluoride			5000	;		D	5000## (2270)	
	1		1	1 ,	I	i -	, " (=='0)	

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

				Statutory			Final RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ ,	Code †	RCRA Waste Number	Catego- ry	Pounds(Kg)
Sodium chromate	7775113		1000	1		С	1000# (454)
Sodium cyanide	143339	-	10	1,4	P106	A	10 (4.54)
Sodium dodecytbenzene sulfonate	25155300		1000	1		С	1000 (454)
Sodium fluoride	7681494		5000	1		С	1000 (454)
Sodium hydrosulfide	16721805		5000	1		D	5000 (2270)
Sodium hydroxide	1310732		1000	1		С	1000 (454)
Sodium hypochlorite	7681529 10022705		100	1		В	100 (45.4)
Sodium methylate		•	1000	1		c	1000 (454)
Sodium nitrite			100	1		В	100## (45.4)
Sodium phosphate, dibasic			5000	1		D	5000 (2270)
• • • • • • • • • • • • • • • • • • • •	10039324 10140655			'			
Sodium phosphate, tribasic		`	5000	,		Ð	5000 (2270)
	7785844 10101890						,
	10381894 7758294	·					
	10124568	,					
Sodium selenite	10102188 7782823		1000	1		С	1000## (454)
4,4'-Stilbenediol, alpha,alpha'-diethyl	56531	Diethylstilbestrof	1.	4	U089	×	1# (0.454)
Streptozotocin	18883664	D-Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)	1.	4	U206	x	1# (0.454)
Strontium chromate	7789062		1000	. 1		С	1000# (454)
Strontium sulfide	1314961		1.	4	P107	В	100 (45.4)
Strychnidin-10-one, and salts	57249	Strychnine and salts	10	1,4	P108	A	10 (4.54)
Strychnidin-10-one, 2,3-dimethoxy	357573	Brucine	1.	4	P018	A	10 (4.54)
Strychnine and salts	57249	Strychnidin-10-one, and salts	10	1,4	P108	A	10 (4.54)
Styrene	100425		1000	1		С	1000 (454)
Sulfur hydride	7783064	Hydrogen sulfide	100	1,4	· U135	В	100## (45.4)
Sulfur monochloride	40774000	Hydrosulfuric acid	4000				4000 (454)
Sulfur phosphide	,	Dhanabar a castaculfida	1000	1	11100	В	1000 (454)
Suita prospride	1314603	Phosphorus pentasulfide	100	1,4	U189	6	100 (45.4)
Sulfur selenide	7488564	Selenium disulfide	. 1*	4	U205	x	1# (0.454)
Sulfuric acid			1000	1		С	1000 (454)
Sulfuric acid, dimethyl ester		Dimethyl sulfate	1.	4	U103	×	1# (0.454)
Sulfuric acid, thallium(I) salt		Thallium(i) sulfate	1000	1,4	P115	С	1000## (454)
	10031591						
2,4,5-T	93765	2,4,5-T acid	100	1,4	U232	C.	1000 (454)
2,4,5-T acid	93765	2,4,5-T	100	1,4	U232	c	1000 (454)
		2,4,5-Trichlorophenoxyacetic acid					
2,4,5-T amines	6369966		100	1		D	5000 (2270)
•	6369977 1319728					•	
2.4.5.T outon	3813147						4555
2,4,5-T esters	93798 2545597		100	1		С	1000 (454)
	61792072 1928478 25168154						
2,4,5-T salts	25168154	·	100	1		c	1000 (454)
	10000991		1 100	'		1	1000 (454)

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

				Statutory			Final RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Catego- ry	Pounds(Kg)
TDE	72548	DDD	1	1,2,4	U060	x	1# (0.454)
1,2,4,5-Tetrachlorobenzene	95943	Benzene, 1,2,4,5-tetrachloro	1*	4	U207	D	5000 (2270)
2,3,7,8-Tetrachlorodibenzo-p-dioxin(ŤCDD)	1746016		1*	2		×	1# (0.454)
1,1,1,2-Tetrachloroethane	630206	Ethane,1,1,1,2-tetrachloro	1*	4	U208	×	1# (0.454)
1,1,2,2-Tetrachloroethane	79345	Ethane, 1,1,2,2-tetrachloro	1*	2,4	U209	x	1# (0.454)
, Tetrachloroethylene	127184	Ethene, 1,1,2,2-tetrachloro	1*	2,4	U210	×	1# (0.454)
2,3,4,6-Tetrachlorophenol	58902	Phenol, 2,3,4,6-tetrachloro	1*	4	U212		10 (4.54)
Tetraethyldithiopyrophosphate		Dithiopyrophosphoric acid,tetraethyl ester	1.	4	P109	В	100 (45.4)
Tetraethyl lead		Plumbane, tetraethyl	100	1.4	P110	В	100## (45.4)
Tetraethyl pyrophosphate	ļ.	Pyrophosphoric acid, tetraethyl ester	100	1,4	P111	В	100## (45.4)
Tetrahydrofuran		Furan, tetrahydro	1*	4	U213	С	1000 (454)
Tetranitromethane	1	Methane, tetranitro-	1.	4	P112	A	10 (4.54)
Tetraphosphoric acid, hexaethyl ester		Hexaethyl tetraphosphate	1	4	P062	В	100 (45.4)
Thallic oxide		Thallium(III) oxide	1.		P113	x	1## (0.454)
Thallium ††	ì	Trainerit(ii) Oxide	1.	2	1	x	1## (0.454)
THALLIUM AND COMPOUNDS			1.	2			**
Thailium(i) acetate	1	Acetic acid, thallium(I) salt	,.		U214	×	1## (0.454)
.,			1.		U215	×	1## (0.454)
Thallium(i) carbonate	•	Carbonic acid, dithallium (I) salt			U216	×	1## (0.454)
Thatlium(I) chloride			1*		ŀ		
Thallium(i) nitrate			1.	4	U217	X	1## (0.454)
Thallium(III) oxide		Thallic oxide	1.	1	P113	X	1## (0.454)
Thallium(i) selenide	l l		1*	1	P114	X	1## (0.454)
Thallium(I) sulfate	7446186 10031591	Sulfuric acid, thallium(i) salt	1000	1,4	P115	С	1000## (454)
Thioacetamide	62555	Ethanethioamide	۱۰.	4	U218	х	1# (0.454)
Thiofanox	39196184	3,3-Dimethyl-1-(methylthio)-2-butanone,O-((methylamino) carbonyl] oxime.	1.	4	P045	В	100 (45.4)
Thioimidodicarbonic diamide	541537	2,4-Dithiobluret	1.	4	P049	В	100 (45.4)
Thiomethanol	74931	Methanethiol	100	1,4	U153	В	100 (45.4)
Thiophenol	108985	, , , , , , , , , , , , , , , , , , , ,	1.	4	P014	В	100 (45.4)
Thiosemicarbazide			١.	4	P116	В	100 (45.4)
Thiourea	į.	Carbamide, thio		4	U219	×	1# (0.454)
Thiourea, (2-chlorophenyl)	i	1-(o-Chlorophenyl)thiourea	1	4	P026	В	100 (45.4)
Thiourea, 1-naphthalenyl-		alpha-Naphthylthiourea] ,.	4	P072	В	100 (45.4)
Thiourea, phenyl	1	' ' '	,.	4	P093	В	100 (45.4)
Thiram	ì	Bis(dimethylthiocarbamoyl) disulfide	1.	1 4	U244		10 (4.54)
Toluene		Benzene, methyl-	1000	1,2,4	U220	c	1000 (454)
Toluenediamine		Diaminotoluene] ,.	4	U221	×	1# (0.454)
	25376458 496720 823405						
Toluene diisocyanate	584849 91087 26471625		. 1.	4	U223	а	100 (45.4)
o-Toluidine hydrochloride	636215	Benzenamine, 2-methyl-, hydrochloride	. 1*	4	U222	×	1# (0.454)
Toxaphene	8001352	Camphene, octachloro	. 1	1,2,4	P123	×	1# (0.454)

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

				Statutory			Final RQ '
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code f	RCRA Waste Number	Catego- ry	Pounds(Kg)
2,4,5-TP acid	93721	Propionic acid, 2-(2.4,5-trichlorophenoxy)Silvex	100	1,4	U233	В	100 (45.4)
2,4,5-TP acid esters	32534955		100	1		В	100 (45.4)
H-1,2,4-Triazol-3-amine	61825	Amitrole	1.	4	U011	×	1# (0.454)
Frichlorton	52686		1000	1		С	1000## (454)
1,2,4-Trichlorobenzene	120821		1*	2		В	100 (45.4)
I,1,1-Trichloroethane	71558	Methyl chloroform	1*	2,4	U226	С	1000 (454)
,1,2-Trichloroethane	79005	Ethane, 1,1,2-trichloro	1.	2,4	U227	х	1# (0.454)
Frichloroethene	79016	Trichloroethylene	1000	1,2,4	U228	С	1000# (454)
Frichloroethylene	79018	Trichloroethene	1000	1,2,4	U228	С	1000# (454)
Frichloromethanesulfenyl chloride	594423	Methanesulfenyl chloride, trichloro	1.	4	P118	В	100 (45.4)
Frichloromonofluoromethane	75694	Methane, trichlorofluoro	۱۰	4	U121	D	5000 (2270)
Trichlorophenol	25167822		10	1.		А	10# (4.54)
2,3,4-Trichlorophenol 2,3,5-Trichlorophenol	15950660 933788			1	l	ŀ	
2,3,6-Trichlorophenol 2,4,5-Trichlorophenol	933755	Charal 0.45 Nahlaus				İ	
2,4,6-Trichlorophenol	95954 88062	Phenol, 2,4,5-trichloro- Phenol, 2,4,6-trichloro-			ļ		
3,4,5-Trichlorophenol	609198						
2,4,5-Trichlorophenol	1	Phenol, 2,4,5-trichloro	10	1.4	U230	A	10# (4.54)
2,4,6-Trichlorophenol	j	Phenol, 2,4,6-trichloro	10	1,2,4	U231	Α	10# (4.54)
2,4,5-Trichlorophenoxyacetic acid	93765	2,4,5-T	100	1,4	U232	С	1000 (454)
Triethanolamine dodecylbenzenesulfonate	27323417		1000	1		С	1000 (454)
Triethylamine	121448		5000	1	ļ	D	5000 (2270)
Trimethylamine	75503		1000	1		С	4000## (454)
sym-Trinitrobenzene	99354	Benzene, 1,3,5-trinitro	1.	4	U234	x	1## (0.454)
1,3,5-Trioxane, 2,4,6-trimethyl	123637	Paraldehyde	1.	4	U182	c	1000 (454)
Tris(2,3-dibromopropyl) phosphate	126727	1-Propanol, 2,3-dibromo-, phosphate (3:1)	1.	4	U235	x	1# (0.454)
Trypan blue	72571	2,7-Naphthalenedisulfonic acid,3,3'-[(3,3'-dimethyl- (1,1'-biphenyl)-4,4'-diyl)- bis(azo)]bis(5-amino-4- hydroxy)-tetrasodium salt.	1.	4	U236	×	1# (0.454)
Unlisted Hazardous Wastes			1.	4		<u> </u>	
Characteristic of Ignitability			1.	4	D001	В	100 (45.4)
Characteristic of Corrosivity			1.	4	D002	8	100 (45.4)
Characteristic of Reactivity			1.	4	D003	В	100 (45.4)
•	İ		1.	4			
•] ,.	4	D004	×	1# (0.454)
] ,.	4	D005	C	1000 (454)
	İ] ,.	4	D006	×	1# (0.454)
	1	1			_	1	1
Chromium	1 .		1"	4	D007	X	1# (0.454)
Lead	1	·	1"	4	D008	X	1## (0.454)
	İ		1"	4	D009	×	1 (0.454)
Selenium	1		1	4	D010	X	1## (0.454)
Silver			1.	4	D011	X	1 (0.454)
Endrin	1	1	1	1,4	D012	. x	1 (0.454)
	1		. 1	1,4	D013	X	1# (0.454)
Methoxychlor			'	1,4	D014	×	1 (0.454)
Toxaphene			ľ	1,4	D015	x	1# (0.454)

TABLE 302.4 - LÎST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

		_		Statutory	T _==		Final RQ
Hazardous Substance	CASRN	' Regulatory Synonyms	RQ	Code I	RCRA Waste Number	Catego- ry	Pounds(Kg)
2,4-D			100	1,4	D016	В	100 (45.4)
2,4,5-TP			100	1,4	D017	В	100 (45.4)
Uracil, 5-{bis(2-chloroethyl)amino}	66751	Uracil mustard	1"	4	U237	×	1# (0.454)
Uracil mustard	66751	Uračil, 5-[bis(2-chloroethyl)amino]	1.	4	U237	×	1# (0.454)
Uranyl acetate	541093		5000	1		ם	5000## (2270)
Uranyl nitrate			5000	1		D	5000## (2270)
Manada and amount of	36478769	A				١	4000 (450)
Vanadic acid, ammonium salt		Ammonium vanadate	1.	1	P119	C	1000 (454)
Vanadium(V) oxide		Vanadium pentoxide	1000	1,4	P120	C	1000## (454)
Vanadium pentoxide	l l	Vanadium(V) oxide	1000	1,4	P120	C	1000## (454)
Vanadyl sulfate	ļ		1000	1	,,	C	1000## (454)
Vinyl acetate			1000	1		D	5000 (2270)
Vinyl chloride	}	Ethene, chloro	1.	2,3,4	U043	×	1# (0.454)
Vinytidene chloride	75354	1,1-Dichloroethylene Ethene, 1,1-dichloro-	5000	1,2,4	U078	D	5000# (2270)
Warfarin	81812	3-(alpha-Acetonylbenzyl)-4-hydroxycoumarin and salts	1*	4	P001	В	100 (45.4)
Xylene (mixed)		Benzene,dimothyl	1000	1,4	U239	С	1000 (454)
m∙ o-	108383 95476	m- 0-					
p -	106423	P -					
Xylenol			1000	1		C	1000 (454)
Yohimban-16-carboxylic acid,11,17-dimethoxy- 18- [(3,4,5- trimethoxybenzoyl)oxy]-, methylester,	50555	Reserpine	1.	4	U200	D	5000 (2270)
Zinc ††	7440666		1.	2		. x	1## (0.454)
ZINC AND COMPOUNDS			1.	2		ļ	
Zinc scetate	557346		1000	1		c	1000## (454)
Zinc ammonium chloride			5000	1		D	5000## (2270)
	14639975 14639986						
Zinc borate	1332076		1000	,		С	1000## (454)
Zinc bromide	7699458		5000	1		D	5000## (2270)
Zinc carbonate	3486359		1000	1		С	1000## (454)
Zinc chloride	7646857		5000	1		. D	5000## (2270)
Zinc cyanide	557211		. 10	1,4	P121	A .	10## (4.54)
Zinc fluoride	7783495		1000	1		С	1000## (454)
Zinc formate	557415		1000	1		. с	1000## (454)
Zinc hydrosulfite	7779864		1000	1		. с	1000## (454)
Zinc nitrate	7779886		5000	,		. 0	5000## (2270)
Zinc phenolsulfonate	127822		5000	,		. D	5000## (2270)
Zinc phosphide	1314847		1000	1,4	P122	С	1000## (454)
Zinc silicofluoride	16871719		5000	1		. D	5000##(2270)
Zinc sullate	7733020		1000	,		С	1000## (454)
Zirconium nitrate	13746899		5000	,		. D	5000 (2270)
Zirconium potassium fluoride	16923958		5000	,		. с	1000 (454)
Zirconium sulfate	14644612		5000	,		. D	5000 (2270)
Zirconium tetrachloride	}		5000			. 0	5000 (2270)
F001			1.		F001	×	1# (0.454)

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance				Statutory	г	_	Final RO	
Hazardous Substance .	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Catego- ry	Pounds(K	
The following spent halogenated solvents used in								
degreasing and studges from the recovery of	1		1	1		1	1	
these solvents in degreasing operations:			1	1	l	ŀ	ľ	
(a) Tetrachloroethylene	127184			}	ļ	X	1# (0.454	
(b) Trichloroethylene						С	1000# (4	
(c) Methylene chloride	75092				ļ	C	1000 (45	
(d) 1,1,1-Trichloroethane					ļ	C	1000 (45	
(e) Carbon tetrachloride					ļ	D	5000# (22	
(f) Chlorinated fluorocarbons	(N.A.)			ļ	ļ	D	5000 (22	
	1				ļ			
) 			1°	4	F002	X	1# (0.45	
The following spent halogenated solvents and the			ļ		1		1	
still bottoms from the recovery of these solvents:	ļ		Į.	Į	l	Į	į.	
(a) Tetrachloroethylene	127184		1	·····		X	1# (0.45	
(b) Methylene Chloride	75092	ļ 			ļ	С	1000 (45	
(c) Trichloroethylene					.j	С	1000# (4	
(d) 1,1,1-Trichloroethane						С	1000 (45	
(e) Chlorobenzene					ļ	В	100 (45.	
(f) 1,1,2-Trichloro-1,2,2-trifluoroethane				ļ		. D	5000 (22	
(g) o-Dichlorobenzene	106467			ļ		. В	100 (45	
(h) Trichlorofluoromethane	75694					. D	5000 (22	
	1		1	i	1	1	1	
) <u></u>			1*	4	F003	В	100 (45	
The following spent non-halogenated solvents and	Į		1	1	1	1	1	
the still bottoms from the recovery of these			1	1	1	1	1	
solvents:			1]	ł	1	1	
(a) Xylene	1330207	***************************************		ļ	ļ	C	1000 (45	
(b) Acetone						D	5000 (22	
(c) Ethyl acetate			1		<u></u>	D	5000 (22	
(d) Ethylbenzene		,	1		1	C	1000 (45	
(e) Ethyl ether			1		1	B	100 (45	
(f) Methyl isobutyl ketone				1	1	D	5000 (22	
(g) n-Butyl alcohol				<u> </u>	·	, D	5000 (22	
					·	Ď		
(h) Cyclohexanone				†**********	†·····		5000 (22	
(i) Methanol	67561	*************************************		·	·	. D	5000 (22	
4	Ī			4	F004.	×	1## (0.4	
The following spent non-halogenated solvents and the still bottoms from the recovery of these solvents: (a) Cresols/Cresylic acid	1319773	·				C	1000# (4	
(b) Nitrobenzene			•	1		С	1000 (45	
(5)	1		1	T		1	,,,,	
5	1		1.	4	F005	×	1## (0.4	
The following spent non-halogenated solvents and the still bottoms from the recovery of these			,					
solvents:	40000			1	1	1 _		
(a) Toluene			···-	. 		. C	1000 (45	
(b) Methyl ethyl ketone					.	. D	5000 (22	
(c) Carbon disulfide						. D	5000# (2:	
(d) Isobutanol	78831	,,				. D	5000 (22	
(e) Pyridine	110861					. x	1## (0.4	
	1		1	1	1		1	
3		<u>[</u>		4	F006	X	1# (0.4	
Wastewater treatment studges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum								
7			1*	4	F007	A	10 (4.5	
6			1.		F008		10 (4.5	
Plating bath sludges from the bottom of plating baths from electroplating operations where cyanides are used in the process (except for precious metals electroplating plating bath sludges)								
			1•	4	F009	A	10 (4.5	
Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process (except for precious metals electroplating spent stripping and cleaning bath solutions)								

* TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	CASRN	Regulatory Synonyms			RCRA	۱	
ridzai dodo Saboranio	CASHI	riegulatory Syllollyilla	RQ	Code I	Waste Number	Catego- ry	Pounds(K
Quenching bath sludge from oil baths from metal heat treating operations where cyanides are used in the process (except for precious metals heat-treating quenching bath sludges)	,	:				÷	
Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations (except for precious metals heat treating spont cyanido			1*	4	F011	A	10 (4.54
solutions from salt bath pot cleaning) 2 Quenching wastewater treatment sludges from metal heat treating operations where cyanides	-		11*	4	F012	A	10 (4.54
are used in the process (except for precious metals heat treating quenching wastewater teatment sludges)						:	
9			1*	4	F019	X	1# (0.45
4			1*	4	F024	×	1# (0.45
treatment sludges, spent catalysts,and wastes listed in Section 261.32.) 1			1*	4	K001	×	1# (0.45
wastewaters from wood preserving processes that use creosote and/or pentachlorophenol 2			1*	4	K002	×	1# (0.45
of chrome yellow and orange pigments 3			1*	4	K003	×	1# (0.45
of molybdate orange pigments			1*	4	K004	×	1# (0.4
of zinc yellow pigments 5			1.	. 4	K005	×	1# (0.4
of chrome green pigments 6Wastewater treatment sludge from the production			1*	4	K006	×	1# (0.4
of chrome oxide green pigments (anhydrous and hydrated)	•••••••••••		1*	4	K007	. x	1# (0.4
			1*	4	коов	×	1# (0.4
Oven residue from the production of chrome oxide green pigments 9			1.	4	K009	×	1# (0.4
acetaldehyde from ethylene 0			1*	4	K010	×	1# (0.4
acetaldehyde from ethylene			1.	4	K011	×	1# (0.4
production of acrytonitrile 3			1*	4	K013	* ×	1# (0.4
production of acrylonitrile 4			1*		K014	D	5000 (22

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

		[.		Statutory	T = ::-		Final RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Catego- ry	Pounds(Kg
15		·	1*	4	K015	×	1# (0.454)
			1*	4	K016	×	1# (0.454
Heavy ends or distillation residues from the productionof carbon tetrachloride			·				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
17Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin			1*	4	K017	×	1# (0.454
18			1*	4	K018	x	1# (0.454
Heavy ends from the fractionation column in ethyl chloride production							
Heavy ends from the distillation of ethylene			1*	4	K019	X	1# (0.454
dichloride in ethylene dichloride production	<u> </u> 		1.	4	K020	×	1# (0.45
Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production	:						·
21			. 1*	4	K021	×	1# (0.45
fluoromethanes production		•	1.		K022	×	1# (0.45
Distillation bottom tars from the production of phenol/acetone from cumene					NOZZ	<u> </u>	1,, (0.40
23			1*	4	К023	D	5000 (22)
Distillation light ends from the production of phthalic anhydride from naphthalene			=				-
Distillation bottoms from the production of phthalic		:	1*	4	K024	D	5000 (22)
anhydride from naphthalene		,	1.	4	K025	×	1# (0.45
Distillation bottoms from the production of nitrobenzene by the nitration of benzene			,				.,,
26			1*	4	K026	х	1## (0.4
Stripping still tails from the production of methyl ethyl pyridines							
Centrifuge and distillation residues from toluene	 		1*	4	K027	×	1# (0.45
diisocyanate production			,.	4	K028	×	1# (0.45
Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane			' 		KOZO		\ \(\(\psi \) \(\tau \)
Waste from the product steam stripper in the		·	1*	4	K029	×	1# (0.45
production of 1,1,1-trichloroethane			1.	4	K030	×	1# (0.45
Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene							
31	ļ		1.	4	K031	×	1# (0.45
By-product salts generated in the production of MSMA and cacodylic acid							
32			1*	4	K032	×	1# (0.45
33			1*	4	к033	×	1# (0.45
of cyclopentadiene in the production of chlordane			1.	4	K034	. x	1# (0.45
Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane				-	7,004		, # (O.4)
Wastewater treatment sludges generated in the	-		11	4	K035	×	1# (0.45
production of creosote] ,.	4	К036	x	1 (0.45

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Herendaya O. S.				Statutory	Final RQ		
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code I	RCRA Waste Number	Catego- ry	Pounds(K
Still bottoms from toluene reclamation distillation in the production of disulfoton							
Wastewater treatment sludges from the production of disulfoton			1,	4	K037	X	1 (0.454
Wastewater from the washing and stripping of phorate production			1*	4	козв	x	1# (0.45
Tritler cake from the filtration of diethylphosphorodithioic acid in the production of phorate			1*	4	К039	х	1## (0.4
Nastewater treatment sludge from the production of phorate		,	1*	4	K040	x	1# (0.4
Vastewater treatment sludge from the production of toxaphene			1*	4	K041	×	1# (0.4
leavy ends or dictillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T			1*	4	K042	×	1# (0.4
			1.	4	K043	×	1# (0.4
Wastewater treatment studges from the manufacturing and processing of explosives			1*	4	K044	A	10 (4.5
Spent carbon from the treatment of wastewater containing explosives			1*	4	K045	^	10 (4.5
Nastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds	,	•	1*	4	K046	×	1## (0.4
Pink/red water from TNT operations			1*	4	K047	A	10 (4.5
Dissolved air flotation (DAF) float from the petroleum refining industry			.1*	4	K048	×	1# (0.4
Slop oil emulsion solids from the petroleum refining industry			1*	4	K049	X	1# (0.4:
Heat exchanger bundle cleaning sludge from the petroleum refining industry			1*	4	K050	×	1# (0.4
API separator sludge from the petroleum rofining industry	•		-1*	4	K051	×	1# (0.4
Tank bottoms (leaded) from the pétroleum refining industry		<u> </u>	1.	4	K052	×	1## (0.4
Ammonia still time studge from coking operations			1.	4	K061	×	1# (0.4
production of steel in electric furnaces Spent pickle liquor from steel finishing operations			1.	4	K062	×	1# (0.4
mission control dust/sludge from secondary lead smelting			1*	4	K069	×	1# (0.4
Brine purification muds from the mercury cell process in chlorine production, where separately			1*	4	K071	×	1 (0.45

TABLE 302.4 - LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

· · · · · · · · · · · · · · · · · · ·				Statutory			Final RQ
Hazardous Substance	CASRN	Regulatory Synonyms .	RQ	Code †	RCRA Waste Number	Catego- ry	Pounds(Kg
73			1.	4	K073	×	1# (0.454)
Chlorinated hydrocarbon waste from the purification			·	1			,
step of the diaphragm cell process using graphite anodes in chlorine production						1	
·			1.		K083		100 (45.4)
Distillation bottoms from aniline extraction			,-	4	KUBS	В	100 (45.4)
084			1.	4	K084	_×	1# (0.454)
Wastewater treatment sludges generated during the							1,, (0.101
production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds			ľ	1			
,			1.		Vanc	×	4 # 10 454
Distillation or fractionation column bottoms from the			'	4	K085	^	1# (0.454
production of chlorobenzenes							
	•••••		1.	4	K086	x	1# (0.454
Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from							
cleaning tubs and equipment used in the							
formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead						1	Ì
087			1.	4	K087	×	1## (0.454
Decanter tank tar sludge from coking operations				-	1.00,	"	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
093			1.	4	K093	D	5000 (2270
Distillation light ends from the production of phthalic					Ţ _	l	,
anhydride from ortho-xylene					i		
094			1.	4	K094	D	5000 (2270
anhydride from ortho-xylene							
			1.	4	K095	х	1# (0.454)
Distillation bottoms from the production of 1,1,1-					11000		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
trichloroethane							
096			1.	4	K096	×	1# (0.454)
Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane							
007			1.	4	K097	×	1# (0.454
Vacuum stripper discharge from the chlordane		***************************************	1		11057		1, (0.101
chlorinator in the production of chlordane							
098			. 1*	4	K098	x	1# (0.454
Untreated process wastewater from the production of toxaphene				İ			
000] ,.	4	К099	×	1# (0.454
Untreated wastewater from the production of 2,4-D			'			_ ^	1, (0.454
100			1.	4	K100	×	1# (0.454
Waste leaching solution from acid leaching of]				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
emission control dust/sludge from secondary lead smelting (Components of this waste are							
identical with those of K089).					1		
101			. 1•	4	K101	×	1# (0.454
Distillation tar residues from the distillation of aniline-based compounds in the production of				1		1	
veterinary pharmaceuticals from arsenic or organo-arsenic compounds]]				
Residue from the use of activated carbon for			1°	4	K102	×	1# (0.454
decolorization in the production of veterinary				1			
pharmaceuticals from arsenic or organo-arsenic compounds							
103	1		1.	4	K103	8	100 (45.4
Process residues from aniline extraction from the	<u> </u>		1 '	7	1,103		100 (45.4
production of aniline	1					-	
104	ļ		. 1.	4	K104	x	1# (0.454
Combined wastewater streams generated from nitrobenzene/aniline chlorobenzenes							
			,.		rine.	X.	1# (0.454
Separated aqueous stream from the reactor product			1	4	K105	^	1# (0.454
washing step in the production of chlorobenzenes					1		
106	ļ		. 1.	4	K106	×	1 (0.454
Wastewater treatment studge from the mercury cell process in chlorine production			-				
process in chichina production	1	1	1	1	1	1	1

See footnotes on following page.

- † indicates the statutory source as defined by 1, 2, 3, or 4 below
 1 indicates that the statutory source for designation of this hazardous substance under CERCLA is CWA Section 311(b)(4)
 2 indicates that the statutory source for designation of this hazardous substance under CERCLA is CWA Section 307(a)
 3 indicates that the statutory source for designation of this hazardous substance under CERCLA is CWA Section 307(a)
 3 indicates that the statutory source for designation of this hazardous substance under CERCLA is RCRA Section 3001
 † no reporting of releases of this hazardous substance under CERCLA is RCRA Section 3001
 † the RQ for asbestos is limited to friable forms only
 § the Agency may adjust the RQ for radionuclides in a future rulemaking; until then the statutory 1-pound RQ applies
 1* indicates that the 1-pound RQ is a CERCLA statutory RQ

 * indicates that the RQ is subject to change when the assessment of potential carcinogenicity and/or chronic toxicity is completed

 ## indicates that an adjusted RQ is proposed in a separate NPRM in today's Federal Register

 ### the Agency may adjust the RQ for methyl isocyanate in a future rulemaking; until then the statutory 1-pound RQ applies

APPENDIX A - SEQUENTIAL CAS REGISTRY | APPENDIX A - SEQUENTIAL CAS REGISTRY | APPENDIX A - SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS

CASRN	Hazardous Substance
50000	Formaldehyde
30000	Methylene oxide
50077	Azirino(2',3':3,4)pyrrolo(1,2-a)indole-4,7-dione,6- amino-8- [((aminocarbonyl)oxy)methyl]- 1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl- Mitomycin C
50180	Oyclophosphamide 2H-1,3,2-Oxazaphosphorine,2-[bis(2- chloroethyl)amino}tetrahydro-2-oxide
50293	DDT 4,4' DDT Dichlorodiphenyl trichloroethane
50328	Benzo[a]pyrene 3,4-Benzopyrene
50555	Reserpine Yohimban-16-carboxylic acid,11,17-dimethoxy-18- ((3,4,5-trimethoxybenzoyl)oxyl-,methyl ester
51285	2,4-Dinitrophenol Phenol, 2,4-dinitro-
51434	1.2-Benzenediol.4-[1-hydroxy-2- (methylamino)ethyl]- Epinephrine
51796	Carbamic acid, ethyl ester Ethyl carbamate (Urethan)
52686	Trichlorion
52857	Famphur Phosphorothioic acid, O,O-dimethyl-O-[p-[(dimethylamino)-sulfonyl]phenyl] ester
53703	Dibenz(a,h)anthracene 1,2:5,8-Dibenzanthracene Dibenzo(a,h)anthracene
53963	Acetamide, N-9H-fluoren-2-yl- 2-Acetylaminofluorene
54115	Nicotine and salts Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-,and salts
55185	Ethanamine, N-ethyl-N-nitroso- N-Nitrosodiethylamine
55630	Nitroglycerine 1,2,3-Propanetriol, trinltrate-
55914	Diisopropyl fluorophosphate Phosphorofluoridic acid,bis(1-methylethyl) ester
56042	Methylthiouracil 4(1H)-Pyrimidinone, thioxo-
56235	Carbon tetrachloride Methane, tetrachloro-
56382	Parathion Phosphorothioic acid,O,O-diethyl O-(p-nitrophenyl)ester
56495	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-3-Methylcholanthrene
56531	Diethylstilbestrol 4,4'-Stilbenediol, alpha,alpha'-diethyl-

NUMBER LIST OF CERCLA HAZARDOUS

SUBS	TANCES—Continued	SUBS	TANCES—C
CASRN	Hazardous Substance	CASRN	н
56553	Benz[a]anthracene 1,2-Benzanthracene	62737	Dichlorvos
	Benzo[a]anthracene	62748	Acetic acid, flui Fluoroacetic ac
56724 57125	Cournaphos Cyanides (soluble cyanide salts), not elsewhere-	62759	Dimethylnitrosa N-Nitrosodimeti
	specified	63252	Carbaryl
57147	1,1-Dimethylhydrazine Hydrazine, 1,1-dimethyl-	64186	Formic acid Methanoic acid
57249	Strychnidin-10-one, and salts Strychnine and salts	64197	Acetic acid
57749	Chlordane	65850	Benzoic acid
	Chlordane, technical 4,7-Methanoindan, 3a,4,7,7a-tetrahydro-	66751	Uracil, 5-(bis(2- Uracil mustard
57976	1,2-Benzanthracene, 7,12-dimethyl- 7,12-Dimethylbenz[a]anthracene	67561	Methanol Methyl alcohol
58899	gamma - BHC Hexachlorocyclohexane (gamma isomer) Lindane	67641	Acetone 2-Propanone
58902	Phenol, 2,3,4,6-tetrachioro-	67663	Chloroform Methane, trichlo
59507	2,3,4,6-Tetrachiorophenol 4-Chloro-m-cresol	67721	Ethane, 1,1,1,2, Hexachloroetha
	p-Chloro-m-cresol Phenol, 4-chloro-3-methyl-	70257	Guanidine, N-ni N-Methyl-N'-nitr
60004 60117	Ethylenediamine tetraacetic acid (EDTA)	70304	Hexachloropher 2,2'-Methyleneb
	Benzenamine, N,N-dimethyl-4-phenylazo- Dimethylaminoazobenzene	71363	1-Butanol
60297	Ethane, 1,1'-oxybis- Ethyl ether	71432	n-Butyl alcohol Benzene
60344	Hydrazine, methyl- Methyl hydrazine	71556	Methyl chlorofo 1,1,1-Trichloroe
60515	Dimethoate Phosphorodithioic acid,O,O-dimethyl S-[2(methylamino)-2-oxoethyl] ester Dieldrin	72208	Endrin 1,2,3,4,10,10-He 1,4,4a,5,6,7,8 dimethanonas
0.371	1.2.3,4,10.10-Hexachloro-6,7-epoxy- 1,4,4a,5,6,7,8,8a-octahydro-endo,exo-1,4:5,8- dimethanonaphthalene	72435	Ethane, 1,1,1-tri Methoxychlor
61825	Amitrole 1H-1,2,4-Triazol-3-amine	72548	DDD 4,4' DDD Dichlorodipheny
62384	Mercury, (acetato-O)phenyl- Phenylmercuric acetate	72559	DDE
62442	Acetamide, N-(4-ethoxyphenyl)- Phenacetin	72571	4,4' DDE 2,7-Naphthalene
62500	Ethyl methanesulfonate Methanesulfonic acid, ethyl ester		yl-(l,1'-bipheny 4-hydroxy)-tet Trypan blue
62533	Aniline Benzenamine	74839	Methane, bromo Methyl bromide
62555	Ethanethioamide Thioacetamide	74873	Methane, chloro Methyl chloride
62566	Carbamide, thio- Thiourea	74884	Methane, iodo- Methyl iodide

NUMBER LIST OF CERCLA HAZARDOUS

CASRN	Hazardous Substance
62737	Dichlorvos
62748	Acetic acid, fluoro-, sodium satt Fluoroacetic acid, sodium satt
62759	Dimethylnitrosamine N-Nitrosodimethylamine
63252	Carbaryl
64186	Formic acid Methanoic acid
64197	Acetic acid
65850	Benzoic acid
66751	Uracil, 5-(bis(2-chloroethyl)amino]- Uracil mustard
67561	Methanol Methyl alcohol
67641	Acetone 2-Propanone
67663	Chloroform Methane, trichloro-
67721	Ethane, 1,1,1,2,2,2-hexachloro- Hexachloroethane
70257	Guanidine, N-nitroso-N-methyl-N'-nitro- N-Methyl-N'-nitro-N-nitrosoguanidine
70304	Hexachlorophene 2,2'-Methylenebis(3,4,6-trichlorophenol)
71363	1-Butanol n-Butyl alcohol
71432	Benzene
71556	Methyl chloroform 1,1,1-Trichloroethane
72208	Endrin 1,2,3,4,10,10-Hexachtoro-6,7-epoxy- 1,4,4a,5,6,7,6,8a-octahydro-endo,endo-1,4:5,8- dimethanonaphthalene
72435	Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- Methoxychlor
72548	DDD 4,4* DDD Dichlorodiphenyl dichloroethane TDE
72559	DDE 4,4' DDE
72571	2,7-Naphthalenedisulfonic acid,3,3'-[(3,3'-dimeth yl-(1,1'-biphenyl)-4,4'-diyl)-bis(azo)]bis(5-amino-4-hydroxy)-tetrasodium salt Trypan blue
74839	Methane, bromo- Methyl bromide
74873	Methane, chloro- Methyl chloride
74004	Adams - Inda

CASRN Hazardous Substance 74895 Monomethylamine 74908 Hydrocyanic acid Hydrogen cyanide 74931 Methanethiol Methylmercaptan Thiomethanol 74953 Methane, dibromo-Methylene bromide Chloroethane 75003 75014 Ethene, chloro-Vinyl chloride 75047 Monoethylamine 75058 Acetonitrile Ethanenitrile 75070 Acetaldehyde Ethanai 75092 Methane, dichloro-Methylene chloride 75150 Carbon bisulfide Carbon disulfide 75207 Calcium carbide 75218 Ethylene oxide Oxirane 75252 Bromoform Methane, tribromo-75274 Dichlorobromomethane 75343 1,1-Dichloroethane Ethane, 1,1-dichloro-Ethylidene dichloride 75354 1,1-Dichloroethylene Ethene, 1,1-dichloro-Vinylidene chloride 75365 Acetyl chloride Ethanoyl chloride 75445 Carbonyl chloride 75503 Trimethylamine 75558 2-Methylaziridine 1,2-Propylenimine 75569 Propylene oxide 75605 Cacodylic acid Hydroxydimethylarsine oxide 75649 tert-Butylamine 75694 Methane, trichlorofluoro-Trichloromonofluoromethane 75718 Dichlorodifluoromethane Methane, dichlorodifluoro-75865 Acetono cyanohydrin 2-Methyllactonitrile Propanenitrile, 2-hydroxy-2-methyl-Acetaldehyde, trichloro-Chloral 75990 2,2-Dichloropropionic acid 76017 Ethane, pentachioro-Pentachloroethane 76448 Heptachlor 4,7-Methano-1H-indene,1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-

APPENDIX A - SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous Substance
77474	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro- Hexachlorocyclopentadiene
77781	Dimethyl sulfate Sulfuric acid, dimethyl ester
78002	Plumbane, tetraethyl- Tetraethyl lead
78591	Isophorone
78795	Isoprene
78819	iso-Butylamine
78831	Isobutyl alcohol 1-Propanol, 2-methyl-
78875	1,2-Dichloropropane Propylene dichloride
78886	2,3-Dichloropropene
78933	2-Butanone Methyl ethyl ketone
78999	1,1-Dichloropropane
79005	Ethane, 1,1,2-trichloro- 1,1,2-Trichloroethane
79016	Trichloroethene Trichloroethylene
79061	Acrylamide 2-Propenamide
79094	Propionic acid
79107	Acrylic acid 2-Propenoic acid
79196	Hydrazinecarbothioamide Thiosemicarbazide
79221	Carbonochloridic acid, methyl ester Methyl chlorocarbonate
79312	iso-Butyric acid
79345	Ethane, 1,1,2,2-tetrachloro- 1,1,2,2-Tetrachloroethane
79447	Carbamoyl chloride, dimethyl- Dimethylcarbamoyl chloride
79469	2-Nitropropane Propane, 2-nitro-
80159	alpha,alpha-Dimethylbenzylhydroperoxide Hydroperoxide, 1-methyl-1-phenylethyl-
·80626	Methyl methacrylate 2-Propenoic acid, 2-methyl-, methyl ester
81072	1,2-Benzisothiazolin-3-one,1,1-dioxide, and salts Saccharin and salts
81812	3-(alpha-Acetonylbenzyi)-4-hydroxycoumarin and salts Warfarin
82688	Benzene, pentachloronitro- Pentachloronitrobenzene
83329	Acenaphthene
84662	1,2-Benzenedicarboxylic acid,diethyl ester Diethyl phthalate
84742	1.2-Benzenedicarboxylic acid,dibutyt ester n-Butyt phthalate Dibutyt phthalate Di-n-butyt phthalate

APPENDIX A - SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS

SUBS	TANCES—Continued
CASRN	Hazardous Substance
85007	Diquat
85018	Phenanthrene
85449	1,2-Benzenedicarboxylic acid anhydride Phthalic anhydride
85687	Butyl benzyl phthalate .
86306	N-Nitrosodiphenylamine
86500	Guthion
86737	Fluorene
86884	alpha-Naphthylthiourea Thiourea, 1-naphthalenyl-
87650	2,6-Dichlorophenol Phenol, 2,6-dichloro-
87683	1,3-Butadiene, 1,1,2,3,4,4-hexachtoro- Hexachtorobutadiene
87865	Pentachiorophenol Phenol, pentachioro-
88062	Phenol, 2,4,6-trichloro 2,4,6-Trichlorophenol
88722	o-Nitrotoluene
88755	o-Nitrophenol 2-Nitrophenol
88857	Dinoseb Phenol, 2,4-dinitro-6-(1-methylpropyl)-
91087	Benzene, 2,4-diisocyanatomethyl- Toluene diisocyanate
91203	Naphthalene
91225	Quinoline
91587	beta-Chloronaphthalene 2-Chloronaphthalene Naphthalene, 2-chloro-
91598	2-Naphthylamine beta-Naphthylamine
91805	Methapyrilene Pyridine, 2-[(2-(dimethylamino)ethyl)-2-thenyla- mino]-
91941	(1,1'-Biphenyl)-4,4'diamine,3,3'dichloro- 3,3'-Dichlorobenzidine
92875	Benzidine (1,1'-Biphenyl)-4,4'diamine
93721	Propionic acid, 2-(2,4,5-trichlorophenoxy)- Silvex 2,4,5-TP acid
93765	2,4,5-T 2,4,5-T acid 2,4,5-Trichlorophenoxyacetic acid
93798	2,4,5-T esters
94111	2,4-D Esters
94586	Benzene, 1,2-methylenedioxy-4-propyl- Dihydrosafrole
94597	Benzene, 1,2-methylenedioxy-4-altyl- Safrole
94757	2,4-D Acid 2,4-D, salts and esters 2,4-Dichlorophenoxyacetic acid, salts and esters

Di-n-butyl phthalate

NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

APPENDIX A - SEQUENTIAL CAS REGISTRY | APPENDIX A - SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous Substance	. CASRN	Hazardous Substance	CASRN	Hazardous Substance
94791	2.4-D Esters	100470	Benzonitrile	108383	Benzene, m-dimethyl- m-Xylene
94804	2.4-D Esters	100754	N-Nitrosopiperidine Pyridine, hexahydro-N-nitroso-	108394	m-Cresol
95476	Benzene, o-dimethyl- o-Xylene	101144	Benzenamine, 4,4'-methylenebis(2-chloro- 4,4'-Methylenebis(2-chloroaniline)	108463	m-Cresylic acid 1.3-Benzenediol
95487	o-Cresol o-Cresylic acid	101553	Benzene, 1-bromo-4-phenoxy-		Resorcinol
95501	Benzene, 1,2-dichloro- 1,2-Dichlorobenzene	103855	4-Bromophenyl phenyl ether N-Phenylthiourea	108601	Bis(2-chlorolsopropyl) ether Propane, 2,2'-oxybis(2-chloro-
	o-Dichlorobenzene	105464	Thiourea, phenyl- sec-Butyl acetate	108883	Benzene, methyl- Toluene
95578	2-Chlorophenol o-Chlorophenol Phenol, 2-chloro-	105679	2,4-Dimethylphenol	108907	Benzene, chloro- Chlorobenzene
95807	Diaminotoluene Toluenediamine	106423	Phenol, 2,4-dimethyl- Benzene, p-dimethyl-	108941	Cyclohexanone
95943		106445	p-Xylene p-Cresol	108952	Benzene, hydroxy- Phenol
95954	1,2,4,5-Tetrachlorobenzene Phenol, 2,4,5-trichloro-	<u> </u>	p-Cresylic acid	108985	Benzenethiol Thiophenol
	2,4,5-Trichlorophenol	106467	Benzene, 1,4-dichloro- 1,4-Dichlorobenzene p-Dichlorobenzene	109068	2-Picoline Pyridine, 2-methyl-
96128	Propane, 1,2-dibromo-3-chloro-	106478	Benzenamine, 4-chloro- p-Chloroaniline	109739	Butylamine
96457	Ethylenethiourea 2-Imidazolidinethione	106514	p-Benzoquinone	109773	Malononitrile Propanedinitrile
97632	Ethyl methacrylate 2-Propenoic acid, 2-methyl-, ethyl ester	106898	1,4-Cyclohexadienedione 1-Chloro-2,3-epoxypropane	109897	Diethylamine .
98011	2-Furancarboxaldehyde Furtural		Epichlorohydrin Oxirane, 2-(chloromethyl)-	109999	Furan, tetrahydro- Tetrahydrofuran
98077	1	106934	Ethane, 1,2-dibromo- Ethylene dibromide	110009	Furan Furfuran
98099		107028	Acrolein 2-Propenal	110167	Maleic acid
98828	Benzenesulfonyl chloride Benzene, 1-methylethyl-	107051	Allyl chloride	110178	Fumaric acid
30020	Cumene	107062	1,2-Dichloroethane	110190	iso-Butyl acetate
98862	Acetophenone Ethanone, 1-phenyl-		Ethane, 1,2-dichloro- Ethylene dichloride	110758	2-Chloroethyl vinyl ether Ethene, 2-chloroethoxy-
98873	Benzal chloride Benzene, dichloromethyl-	107108	1-Propanamine n-Propylamine	110827	Benzene, hexahydro- Cyclohexane
98884	Benzoyl chloride	107120	Ethyl cyanide Propanenitrile	110861	Pyridine
98953	Benzene, nitro- Nitrobenzene	107131	Acrylonitrile 2-Propenenitrile	111444	Bis (2-chloroethyl) ether Dichloroethyl ether Ethane, 1,1'-oxybis(2-chloro-
99081	m-Nitrotoluene	107153	Ethylenediamine	111546	1,2-Ethanediylbiscarbamodithioic acid
99354	Benzene, 1,3,5-trinitro- sym-Trinitrobenzene	107186	Allyl alcohol 2-Propen-1-ol	111911	Ethylenebis(dithiocarbamic acid) Bis(2-chloroethoxy) methane
99558	Benzenamine, 2-methyl-5-nitro- 5-Nitro-o-toluidine	107197	Propargyi alcohol 2-Propyn-1-ol	115026	Ethane, 1,1'-[methylenebis(oxy)]bis(2-chloro-
99650	m-Dinitrobenzene	107200	Acetaldehyde, chloro- Chloroacetaldehyde		L-Serine, diazoacetate (ester)
99990		107302	· ·	115297	Endosulfan 5-Norbornene-2,3-dimethanol,1,4,5.6,7,7- hexachloro,cyclic sulfite
100016	Benzenamine, 4-nitro- p-Nitroaniline	107493	Pyrophosphoric acid, tetraethyl ester	115322	
100027	4-Nitrophenol	107926	Tetraethyl pyrophosphate Butyric acid	116063	Propanal, 2-methyl-2-(methylthio)-,O
10005	Phenol, 4-nitro-	108054			((methylamino)carbonyl]oxime
10025		108101	Methyl isobutyl ketone	117806	
100414			4-Methyl-2-pentanone	117817	ester
		108247			Bis(2-ethylhexyl)phthalate
10044	7 Benzene, chloromethyl-	108316	2,5-Furandione	117840	1,2-Benzenedicarboxylic acid,di-n-octyl ester

APPENDIX A - SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

NUME	DIX A - SEQUENTIAL CAS REGISTRY BER LIST OF CERCLA HAZARDOUS TANCES—Continued
CASRN	Hazardous Substance

				ł	
CASRN	Hazardous Substance	CASRN	Hazardous Substance	CASRN	Hazardous Substance
118741	Benzene, hexachloro-	133062	Captan	303344	Lasiocarpine
119904	Hexachlorobenzene (1,1'-Biphenyl)-4,4'diamine,3,3'dimethoxy- 3,3'-Dimethoxybenzidine	134327	1-Naphthylamine alpha-Naphthylamine	305033	Butanoic acid, 4-[bis(2-chloroethyl)amino] ben- zene-
119937	(1,1'Biphenyl)-4,4'-diamine,3,3'-dimethyl-	137268	Bis(dimethylthiocarbamoyl) disulfide Thiram	309002	Chlorambucil .
120127	3,3'-Dimethylbenzidine Anthracene	140885	Ethyl acrylate 2-Propenoic acid, ethyl ester		1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a- hexahydro-1,4:5,8-endo,exo- dimethanonaphthalene
120581	Benzene, 1,2-methylenedioxy-4-propenyl- Isosafrole	141786	Acetic acid, ethyl ester Ethyl acetate	311455	Diethyl-p-nitrophenyl phosphate Phosphoric acid,diethyl,p-nitrophenyl ester
120821	1,2,4-Trichlorobenzene	142289	1,3-Dichloropropane	315184	Mexacarbate
120832	2,4-Dichlorophenol	142712	Cupric acetate	319846	alpha - BHC
404440	Phenol, 2,4-dichloro-	142847	Dipropylamine 1-Propanamine, N-propyl-	319857	beta - BHC
121142	Benzene, 1-methyl-2,4-dinitro- 2,4-Dinitrotoluene	143339	Sodium cyanide	319868	delta - BHC
121211	Pyrethrins	143500	Decachlorooctahydro-1,3,4-meiheno-2H-	329715	2,5-Dinitrophenol
121299	Pyrethrins		cyclobuta[c,d]-pentalen-2-one Kepone	330541	Diuron
121448	Triethylamine	145733	Endothall	333415	Diazinon
121755	Malathion .		7-Oxabicyclo[2,2,1]heptane-2,3-dicarboxylic acid	353504	Carbon oxyfluoride Carbonyl fluoride
122098	alpha,alpha-Dimethylphenethylamine Ethanamine, 1,1-dimethyl-2-phenyl-	148823	Alanine, 3-[p-bis(2-chloroethyl)amino]phenyl-,L- Melphalan	357573 [,]	Brucine Strychnidin-10-one, 2,3-dimethoxy-
122667	1,2-Diphenylhydrazine	151508	Potassium cyanide	460195	Cyanogen
123331	Hydrazine, 1,2-diphenyl- 1,2-Dihydro-3,6-pyridazinedione	151564	Aziridine Ethylenimine	465736	Hexachlorohexahydro-endo,endo- dimethanonaphthalene
	Maleic hydrazide	152169	Diphosphoramide, octamethyf- Octamethylpyrophosphoramide		1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a- hexahydro-1,4:5,8-endo,endo-
123626	Propionic anhydride	156605	1,2-trans-Dichloroethylene		dimethanonaphthalene
123637	Paraldehyde 1,3,5-Trioxane, 2,4,6-trimethyl-		Ethene, trans-1,2-dichloro-	492808	Auramine Benzenamine, 4,4'-carbonimidoylbis (N,N-dimeth-
123739	2-Butenal Crotonaldehyde	189559	1,2:7,8-Dibenzopyrene Dibenz[a,i]pyrene	494031	yl- Chlornaphazine
123864	Butyl acetate	191242	Benzo[ghi]perylene		2-Naphthylamine, N,N-bis(2-chloroethyl)-
123911	1,4-Diethylene dioxide 1,4-Dioxane	193395	Indeno(1,2,3-cd)pyrene 1,10-(1,2-Phenylene)pyrene	496720	Diaminotoluene Toluenediamine .
123922	iso-Amyl acetate	205992	Benzo[b]fluoranthene	504245	4-Aminopyridine 4-Pyridinamine
124049	Adipic acid	206440	Benzo[j,k]fluorene Fluoranthene	504609	1-Methylbutadiene 1,3-Pentadiene
124403	Dimethylamine Methanamine, N-methyl-	207089 208968	Benzo[k]fluoranthene Acenaphthylene	506616	Potassium silver cyanide
124414	Sodium methylate	218019	1,2-Benzphenanthrene	506649	Silver cyanide
124481	Chlorodibromomethane	225514	Chrysene Benz[c]acridine	506683	Bromine cyanide Cyanogen bromide
126727	1-Propanol, 2,3-dibromo-, phosphate (3:1) Tris(2,3-dibromopropyl) phosphate	297972	3,4-Benzacridine	506774	Chlorine cyanide Cyanogen chloride
126987	Methacrylonitrile 2-Propenenitrile, 2-methyl-	201012	O,O-Diethyl O-pyrazinyl phosphorothioate Phosphorothioic acid, O,O-diethyl, O-pyrazinyl ester	506876	Ammonium carbonate
127184	Ethene, 1,1,2,2-tetrachloro- Tetrachloroethylene	298000	O,O-Dimethyl O-p-nitrophenyl phosphorothioate Methyl parathion	506967	Acetyl bromide
127822	Zinc phenolsulfonate	298022	Phorate	509148	Methane, tetranitro- Tetranitromethane
129000 130154	Pyrene		Phosphorodithioic acid, O,O-disthyl S- (ethylthio),methyl ester	510156	Benzeneacetic acid, 4-chloro-alpha-(4-chloro- phenyl)-alpha-hydroxy-,ethyl ester
130134	1,4-Naphthalenedione 1,4-Naphthoquirone	298044	O,O-Diethyl S-[2-(ethylthio)ethyl] phosphorodith- ioate Disulfoton	513495	Ethyl 4,4'-dichlorobenzilate sec-Butylamine
131113	1,2-Benzenedicarboxylic acid,dimethyl ester Dimethyl phthalate	300765	Naled	528290	o-Dinitrobenzene
131748	Ammonium picrate Phenol, 2,4,6-trinitro-, ammonium satt	301042	Acetic acid, lead salt Lead acetate	534521	4,6-Dinitro-o-cresol and salts Phenol,2,4-dinitro-6-methyl-, and salts
	1	Ī	i	540738	

CASRN Hazardous Substance 540885 tert-Butvi acetate 541093 Uranyl acetate 541537 Thloimidodicarbonic diamide 541731 Benzene, 1,3-dichloro-1,3-Dichlorobenzene m-Dichlorobenzene 542621 Barium cyanide 542756 1,3-Dichloropropene Propene, 1,3-dichloro-542767 3-Chloropropionitrile Propanenitrile, 3-chloro-Bis(chloromethyl) ether 542881 Methane, oxybis(chloro-Cadmium acetate 543908 544183 Cobaltous formate 544923 Copper cyanide 554847 m-Nitrophenol 557197 Nickel cyanide Nickel(II) cyanide 557211 Zinc cyanide 557346 Zinc acetate 557415 Zinc formate 563122 **Ethion** Acetic acid, thallium(I) salt 563688 Thallium(I) acetate 573568 2.6-Dinitrophenol 584849 Benzene, 2,4-diisocyanatomethyl-Toluene diisocyanate 591082 Acetamide, N-(aminothioxomethyl)-1-Acetyl-2-thiourea 592018 Calcium cyanide 592041 Mercuric cyanide 592858 Mercuric thiocyanate 592870 Lead thiocyanate Methanesulfenyl chloride, trichloro-Trichloromethanesulfenyl chloride 594423 598312 Bromoacetone 2-Propanone, 1-bromo-606202 Benzene, 1-methyl-2,8-dinitro-2.6-Dinitrotoluene 608935 Benzene, pentachioro-Pentachlorobenzene 609198 3.4.5-Trichlorophenol 3,4-Dinitrotoluene 615532 Carbamic acid, methylnitroso-,ethyl ester N-Nitroso-N-methylurethane 621647 Di-n-propylnitrosamine N-Nitrosodi-n-propylamine Isocyanic acid, methyl ester 624839 Methyl Isocyanate

APPENDIX A - SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous Substance
625161	tert-Amyl acetate
626380	sec-Amyl acetate
628637	Amyl acetate
628864	Fulminic acid, mercury(II)salt Mercury fulminate
630104	Carbamimidoselenoic acid Selenourea
630206	Ethane, 1,1,1,2-tetrachloro- 1,1,1,2-Tetrachloroethane
631618	Ammonium acetate
636215	Benzenamine, 2-methyl-, hydrochloride o-Toluidine hydrochloride
640197	Acetamide, 2-fluoro- Fluoroacetamide
684935	Carbanide, N-methyl-N-nitroso- N-Nitroso-N-methylurea
692422	Arsine, diethyl- Diethylarsine
696286	Dichlorophenylarsine Phenyl dichloroarsine
757584	Hexaethyl tetraphosphate Tetraphosphoric acid, hexaethyl ester
759739	Carbamide, N-ethyl-N-nitroso- N-Nitroso-N-ethylurea
764410	2-Butene, 1,4-dichloro- 1,4-Dichloro-2-butene
765344	Glycidylaldehyde 1-Propanal, 2,3-epoxy-
815827	Cupric tartrate
823405	Diaminotoluene Toluenediamine
924163	1-Butanamine, N-butyl-N-nitroso- N-Nitrosodi-n-butylamine
930552	N-Nitrosopyrrolidine Pyrrole, tetrahydro-N-nitroso-
933755	2,3,6-Trichlorophenol
	2,3,5-Trichlorophenol
959988	alpha - Endosulfan
1024573	Heptachlor epoxide
1031078	Endosulfan sulfate
1066304	Chromic acetate
1066337	Ammonium bicarbonate
1072351	Lead stearate
1111780	Ammonium carbamate
1116547	Ethanol, 2,2'-(nitrosoimino)bis- N-Nitrosodiethanolamine
1120714	1,2-Oxathiolane, 2,2-dioxide 1,3-Propane sultone
1185575	Ferric ammonium citrate
1194656	Dichlobenil
1300716	Xytenol

APPENDIX A - SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

SUBSTANCES—Continued		
CASRN	Hazardous Substance	
1303328	Arsenic disulfide	
1303339	Arsenic trisulfide	
1309644	Antimony trioxide	
1310583	Potassium hydroxide	
1310732	Sodium hydroxide	
1314325	Thallic oxide Thallium(III) oxide	
1314621	Vanadium(V) oxide Vanadium pentoxide	
1314803	Phosphorus pentasulfide Phosphorus sulfide Sulfur phosphide	
1314847	Zinc phosphide	
1314870	Lead sulfide	
1314961	Strontium sulfide	
1319728	2,4,5-T amines	
1319773	Cresol(s) Cresylic acid	
1320189	2.4-D Esters	
1321126	Nitrotoluene	
1327522	Arsenic acid	
1327533	Arsenic (III) oxide Arsenic trioxide	
1330207	Benzene, dimethyl- Xylene	
1332076	Zinc borate	
1332214	Asbestos	
1333831	Sodium bifluoride	
1335326	Lead subacetate	
1336216	Ammonium hydroxide	
1336363	POLYCHLORINATED BIPHENYLS (PCBs) Aroclors	
1338234	2-Butanone peroxide Methyl ethyl ketone peroxide	
1338245	Naphthenic acid	
1341497	Ammonium bifluoride	
1464535	2,2'-Bioxirane 1,2:3,4-Diepoxybutane	
1563662	Carbofuran	
1615801	N,N'-Diethylhydrazine Hydrazine, 1,2-diethyl-	
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin(TCDD)	
1762954	Ammonium thiocyanate	
1863634	Ammonium benzoate	
1888717	Hexachloropropene 1-Propene, 1,1,2,3,3,3-hexachloro-	

CASRN Hazardous Substance 1918009 Dicamba 1928387 2,4-D Esters 1928478 2,4,5-T esters 1928616 2,4-D Esters 1929733 2,4-D Esters 2008460 2,4,5-T amines 2032657 Mercaptodimethur 2303164 S-(2,3-Dichloroallyl) diisopropylthiccarbamate Propargite 2312358 2545597 2,4,5-T estors 5-(Aminomethyl)-3-isoxazolol 3(2H)-Isoxazolone, 5-(aminomethyl)-2764729 D:quat Chlorpyrifos 2921882 2944874 Ferric ammonium oxalate 2971382 2,4-D Esters 3012655 Ammonium citrate, dibasic 3164292 Ammonium tartrate 3165933 Benzenamine, 4-chloro-2-methyl-,hydrochloride 4-Chloro-o-toluidine, hydrochloride 3251238 Cupric nitrate 3288562 O,O-Diethyl S-methyl dithiophosphate Phosphorodithioic acid, O,O-diethyl S-methylester Zinc carbonate 3486359 Dithiopyrophosphoric acid, tetraethyl ester 3689245 Tetraethyldithiopyrophosphate 3813147 2.4.5-T amines 4170303 2-Butenal Crotonaldehyde 4549400 Ethenamine, N-methyl-N-nitroso-N-Nitrosomethylvinylamine 5344821 1-(o-Chlorophenyl)thiourea Thiourea, (2-chlorophenyl)-5893663 Cupric oxalate 5972736 Ammonium oxalate 6009707 Ammonium oxalate 6369966 2.4.5-T amines 6369977 2.4.5-T amines 6533739 Carbonic acid, dithallium (I) salt Thallium(I) carbonate 7005723 4-Chlorophenyl phenyl ether 7421934 Endrin aldehyde

APPENDIX A - SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

l	SUBSTANCES—Continued		
l	CASRN	Hazardous Substance	
	7428480	Lead stearate	
١	7439921	Lead	
1	7439976	Mercury	
	7440020	Nickel	
	7440224	Silver	
١	7440235	Sodium	
١	7440230	Thallium	
۱	7440360	Antimony	
۱	7440382	Arsenic	
	7440417	Beryllium Beryllium dust	
l	7440439	Cadmium	
	7440473	Chromium	
	7440508	Copper	
l	7440666	Zinc	
	7446084	Selenium dioxide Selenium oxide	
I	7446142	Lead sulfate	
	7446186	Sulfuric acid, thallium(I) salt Thallium(I) sulfate	
	7446277	Lead phosphate Phosphoric acid, lead salt	
	7447394	Cupric chloride	
	7488564	Selonium disulfide Sulfur selenide	
	7558794	Sodium phosphate, dibasic	
۱	7601549	Sodium phosphate, tribasic	
1	7631892	Sodium arsenate	
	7631965	Scdium bisulfite	
	7632000	Sodium nitrite	
	7645252	Lead arsenate	
	7646857	Zinc chloride	
	7647010	Hydrochloric acid	
I	7647189	Antimony pentachloride	
		Phosphoric acid	
	7664393	Hydrofluoric acid Hydrogen fluoride	
	7664417	Ammonia	
	7664939	Sulfuric acid	
	7681494	Sodium fluoride	
	7681529	Sodium hypochlorite	

APPENDIX A - SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

	SUBSTANCES—Continued		
١	CASRN	Hazardous Substance	
	7697372	Nitric acid	
	7699458	Zinc bromide	
l	7705080	Ferric chloride	
	7718549	Nickel chloride	
١	7719122	Phosphorus trichloride	
I	7720787	Ferrous sulfate	
1	7722647	Potassium permanganate	
1	7723140	Phosphorus	
1	7733020	Zinc sulfate	
1	7738945	Chromic acid	
١	7758294	Sodium phosphate, tribasic	
l	7758943	Ferrous chloride	
1	7758954	Lead chloride	
١	7758987	Cupric sulfate	
1	7761888	Silver nitrate	
l	7773060	Ammonium sulfamate	
1	7775113	Sodium chromate	
١	7778394	Arsenic acid	
١	7778441	Calcium arsenate	
	7778509	Potassium bichromate	
l	7778543	Calcium hypochlorite	
1	7779864	Zinc hydrosulfite	
1	7779886	Zinc nitrate	
	7782414	Fluorine	
l	7782492	Selenium	
	7782505	Chlorine	
١	7782630	Ferrous sulfate	
١	7782823	Sodium selenite	
	7782867	Mercurous nitrate	
ľ	7783008	Selenious acid	
	7783064	Hydrogen suffide Hydrosuffuric acid Sulfur hydride	
1	7783188	Ammonium thiosulfate	
	7783359	Mercuric sulfate	
	7783462	Lead fluoride	
	7783495	Zinc fluoride	
	7783508	Ferric fluoride	
	7783564	Antimony trifluoride	

CASRN Hazardous Substance 7/84341 Arsenic trichloride 7784409 Lead arsenate 7784410 Potassium arsenate 7784465 Sodium arsenite 7785844 Sodium phosphate, tribasic 7786347 Mevinphos 7786814 Nickel sulfate 7787475 Beryllium chloride 7787497 Beryllium fluoride 7787555 Beryllium nitrate 7788989 Ammonium chromate 7789006 Potassium chromate 7789062 Strontium chromate 7789095 Ammonium bichromate 7789426 Cadmium bromide 7789437 Cobaltous bromide 7789619 Antimony tribromide 7790945 Chlorosulfonic acid 7791120 Thallium(i) chloride 7803512 Hydrogen phosphide Phosphine 7803558 Ammonium vanadate Vanadic acid, ammonium satt 8001352 Camphene, octachloro-Toxaphene Creosote 8001589 8003198 Dichloropropane - Dichloropropene (mixture) 8003347 **Pyrethrins** 8014957 Sulfuric acid 9004664 Ferric dextran Iron dextran 10022705 Sodium hypochlorite 10025873 Phosphorus oxychloride 10025919 Antimony trichloride 10026116 Zirconium tetrachloride 10028225 Ferric sulfate 10031591 Sulfuric acid, thallium(I) salt Thallium(I) sulfate 10039324 Sodium phosphate, dibasic 10043013 Aluminum sulfate 10045893 Ferrous ammonium sulfate

APPENDIX A - SEQUENTIAL CAS REGISTRY | APPENDIX A - SEQUENTIAL CAS REGISTRY

NUME	DIX A - SEQUENTIAL CAS REGISTRY BER LIST OF CERCLA HAZARDOUS TANCES—Continued	APPENDIX A - SEQUENT NUMBER LIST OF C SUBSTANCES—Cont	
CASRN	Hazardous Substance	CASRN	Haza
10045940	Mercuric nitrate	13560991	2,4,5-T salts
10049055	Chromous chloride	13597994	Beryllium nitrate
10099748	Lead nitrate	13746899	Zirconium nitrate
10101538	Chromic sulfate	13765190	Calcium chromate
10101630	Lead iodide		Chromic acid, calci
10101890	Sodium phosphate, tribasic	13814965	Lead fluoborate
10102064	Uranyl nitrate	13826830	Ammonium fluobor
10102188	Sodium selenite	13952846	sec-Butylamine
10102439	Nitric oxide	14017415	Cobaltous sulfamat
10102440	Nitrogen(II) oxide	14216752	Nickel nitrate
10102440	Nitrogen dioxide Nitrogen(IV) oxide		Ammonium oxalate
10102451	Thallium(I) nitrate	14307358	
10102484	Lead arsenate	14307438	Ammonium tartrate
10108642	Cadmium chloride	14639975	Zinc ammonium ch
10124502	Potassium arsenite	14644612	Zinc ammonium ch Zirconium sulfate
10124568	Sodium phosphate, tribasic	15699160	Nickel ammonium
10140655	Sodium phosphate, dibasic	15739807	Lead sulfate
10192300	Ammonium bisuifite	15950660	2,3,4-Trichloropher
10196040	Ammonium sulfite	16721805	Sodium hydrosulfid
10361894	Sodium phosphate, tribasic	16752775	Acetimidic acid,
10380297	Cupric sulfate ammoniated	10/32//3	,methyl ester Methornyl
10415755	Mercurous nitrate	16871719	Zinc silicofluoride
10421484	Ferric nitrate	16919190	Ammonium silicoflu
10544726	Nitrogen dioxide Nitrogen(IV) oxide	16923958	Zirconium potassiu
10588019	Sodium bichromate	18883664	D-Glucopyranose.
11096825	Aroclor 1260	700000	soureido)- Streptozotocin
	Polychlorinated Biphenyls (PCBs)	20816120	Osmium oxide
11097691	Aroclor 1254 Potychlorinated Bipherryls (PCBs)		Osmium tetroxide
11104282	Aroclor 1221	20830813	Daunomycin 5,12-Naphthacened
	Polychlorinated Biphenyls (PCBs)		amino-2,3,6-tride hexopyranosyl)or
11115745	Chromic acid		trihydroxy-1-meth
11141165	Aroclor 1232 Polychlorinated Biphenyls (PCBs)	20859738	Aluminum phosphic
12002038	Cupric acetoarsenite	23950585	3,5-Dichloro-N-(1,1 propynyl)benzam
12039520	Thallium(I) selenide		Pronamide
12054487	Nickel hydroxide	. 25154545	Dinitrobenzene (mi
12125018	Ammonium fluoride	25154556	Nitrophenol (mixed
12125029	Ammonium chloride	25155300	Sodium dodecylbei
12135761	Ammonium sulfide	25167822	Trichlorophenol
12672296	Aroclor 1248 Polychlorinated Binhanyls (PCRs)	25168154 25168267	2,4,5-T esters 2,4-D Esters
12674112	Polychlorinated Biphenyls (PCBs) Aroclor 1016	25321146	Dinitrotoluene
.2074112	Polychlorinated Biphenyls (PCBs)	25321146	
12771083	Sulfur monochloride	25376458	Diaminotoluene

CERCLA HAZARDOUS

NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued		
CASRN	Hazardous Substance	
13560991	2,4,5-T salts	
13597994	Beryllium nitrate	
13746899	Zirconium nitrate	
13765190	Calcium chromate Chromic acid, calcium salt	
13814965	Lead fluoborate	
13826830	Ammonium fluoborate	
13952846	sec-Butylamine	
14017415	Cobaltous sulfamate	
14216752	Nickel nitrate	
14258492	Ammonium oxalate	
14307358	Lithium chromate	
14307438	Ammonium tartrate	
14639975	Zinc ammonium chloride	
14639986	Zinc ammonium chloride	
14644612	Zirconium sulfate	
15699180	Nickel ammonium sulfate	
15739807	Lead sulfate	
15950660	2,3,4-Trichlorophenol	
16721805	Sodium hydrosulfide	
16752775	Acetimidic acid, N-[(methylcarbamoyl)oxy]thio- methyl ester Methomyl	
16871719	Zinc silicofluoride	
16919190	Ammonium silicofluoride	
16923958	Zirconium potassium fluoride	
18883664	D-Glucopyranose, 2-deoxy-2-{3-methyl-3-nitro- soureido}- Streptozotocin	
20816120	Osmium oxide Osmium tetroxide	
20830813	Daunomycin 5,12-Naphthacenedione, (8S-cis)-8-acetyl-10-[3- amino-2,3,6-trideoxy-alpha-L-lyxo- hexopyranosyl)oxy]-7,6,9,10-tetrahydro-6,8,11- trihydroxy-1-methoxy-	
20859738	Aluminum phosphide	
23950585	3,5-Dichloro-N-(1,1-dimethyl-2- propynyl)benzamide Pronamide	
25154545	Dinitrobenzene (mixed)	
25154556	Nitrophenol (mixed)	
25155300	Sodium dodecylbenzene sulfonate	
25167822	Trichlorophenol	
25168154	2,4,5-T esters	
25168267	2,4-D Esters	
25321146	Dinitrotoluene ·	
25321226	Dichlorobenzene (mixed)	
25376458	Diaminototuene Toluenediamine	

13463393 Nickel carbonyl

CASRN	Hazardous Substance
25550587	Dinitrophenol
26264062	Calcium dodecylbenzene sulfonate
26471625	Benzene, 2,4-diisocyanatomethyl- Toluene diisocyanate
26628228	Sodium azide
26638197	Dichtoropropane
26952238	Dichloropropene
27176870	Dodecylbenzenesulfonic acid
27323417	Triethanolamine dodecylbenzene sulfonate
27774136	Vanadyl sulfate
28300745	Antimony potassium tartrate
30525894	Paraformaldehyde
32534955	2,4,5-TP acid esters
33213659	beta - Endosulfan
36478769	Uranyl nitrate
37211055	Nickel chloride
39196184	3,3-Dimethyl-1-(methylthio)-2-butanone,O- [(methylamino)carbonyl] oxime Thiofanox
42504461	Isopropanolamine dodecytbenzene sulfonate
52628258	Zinc ammonium chloride
52652592	Lead stearate
52740166	Calcium arsenite
53467111	2,4-D Esters
53469219	Aroctor 1242 Polychlorinated Biphenyls (PCBs)
55488874	Ferric ammonium oxalate
56189094	Lead stearate
61792072	2,4,5-T esters
	· · · · · · · · · · · · · · · · · · ·

§ 302.5 Determination of reportable quantities.

(a) Listed hazardous substances. The quantity listed in the column "Final RQ" for each substance in Table 302.4 is the reportable quantity for that substance.

(b) Unlisted hazardous substances. Unlisted hazardous substances designated by 40 CFR 302.4(b), which substances are wastes prior to their initial release into the environment, have the reportable quantity of 100 pounds, except for those unlisted

hazardous wastes exhibiting the characteristic of extraction procedure (EP) toxicity identified in 40 CFR 261.24. Unlisted hazardous wastes which exhibit EP toxicity have the reportable quantities listed in Table 302.4 for the contaminant on which the characteristic of EP toxicity is based. The reportable quantity applies to the waste itself, not merely to the toxic contaminant. If an unlisted hazardous waste exhibits EP toxicity on the basis of more than one contaminant, the reportable quantity for that waste shall be the lowest of the reportable quantities listed in Table 302.4 for those contaminants. If an unlisted hazardous waste exhibits the characteristic of EP toxicity and one or more of the other characteristics referenced in 40 CFR 302.4(b), the reportable quantity for that waste shall be the lowest of the applicable reportable quantities.

§ 302.6 Notification requirements.

- (a) Any person in charge of a vessel or an offshore or an onshore facility shall, as soon as he has knowledge of any release (other than a federally permitted release or application of a pesticide) of a hazardous substance from such vessel or facility in a quantity equal to or exceeding the reportable quantity determined by this part in any 24-hour period, immediately notify the National Response Center ((800) 424–8802; in Washington, D.C. (202) 426–2675).
- (b) Releases of mixtures and solutions are subject to these notification requirements only where a component hazardous substance of the mixture or solution is released in a quantity equal to or greater than its reportable quantity.
- (c) Notification of the release of an RQ of solid particles of antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, or zinc is not required if the mean diameter of the particles released is larger than 100 micrometers (0.004 inches).

(Approved by the Office of Management and Budget under the control number 2115–0137)

§ 302.7 Penalties.

(a) Any person

- (1) In charge of a vessel from which a hazardous substance is released, other than a federally permitted release, into or upon the navigable waters of the United States, adjoining shorelines, or into or upon the waters of the contiguous zone.
- (2) In charge of a vessel from which a hazardous substance is released, other than a federally permitted release, which may affect natural resources belonging to, appertaining to, or under the exclusive management authority of the United States (including resources under the Fishery Conservation and Management Act of 1976), and who is otherwise subject to the jurisdiction of the United States at the time of the release, or
- (3) In charge of a facility from which a hazardous substance is released, other than a federally permitted release, in a quantity equal to or greater than that reportable quantity determined under this part who fails to notify immediately the National Response Center as soon as he has knowledge of such release shall be subject to all of the sanctions, including criminal penalties, set forth in section 103 of the Act with respect to such failure to notify.
- (b) Notification received pursuant to this section or information obtained by the exploitation of such notification shall not be used against any such person in any criminal case, except a prosecution for perjury or for giving a false statement.
- (c) This section shall not apply to the application of a pesticide product registered under the Federal Insecticide, Fungicide, and Rodenticide Act or to the handling and storage of such a pesticide product by an agricultural producer.

PART 117—[AMENDED]

2. 40 CFR Part 117 is amended by revising § 117.3 to read as follows:

§ 117.3 Determination of reportable quantities.

Each substance in Table 117.3 that is listed in Table 302.4, 40 CFR Part 302, is assigned the reportable quantity listed in Table 302.4 for that substance.

[FR Doc. 85-4238 Filed 4-3-85; 8:45 am] BILLING CODE 6560-50-M